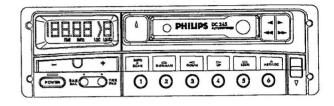
# Cassette car radio 22DC315/02



22DC342/00 22DC345/02

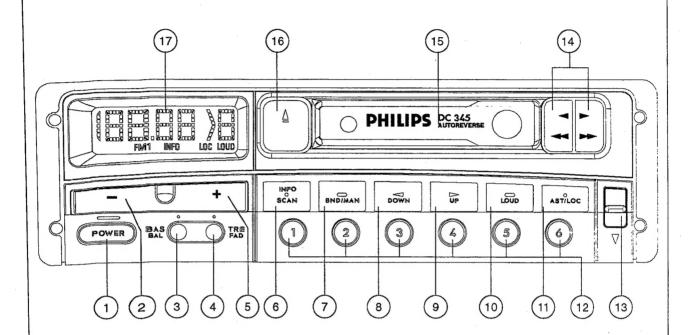


For repair information of the Cassette deck see Service Manual of Auto Cassette Deck CDS36 PR

12 V 🔾

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Main PWB layout	-15-15a
	-17-17a -18-18a -19-19a
Electrical partslist Technician's remarks	-20-20a-21 -22

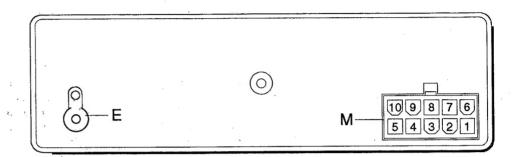
## CONTROLS

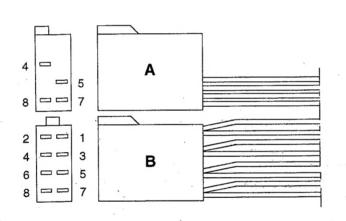


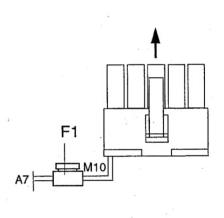
- 1 On / Off
- 2 Volume -
- 3 Bass / Balance
- 4 Treble
- 5 Volume +
- 6 Scan Presets / Info (DC315 and 345)
- 7 Band Selection / Manual Search Select
- 8 Search Down
- 9 Search Up
- 10 Loudness
- 11 Autostore / Local
- 12 Presets / Selection
- 13 Release Knob for detachable unit
- 14 Ffw / Frw Buttons

- 15 Cassette Opening + Flap
- 16 Eject / Reverse Button
- 17 Display

#### CONNECTIONS







A4 = M9 +12V Permanent A5 = M4 Automatic Aerial

A7 = M10 + 12V Switched

A8 = M5 Ground

**Power Supply** 

Yellow / Red

Blue

Red

Brown

B1 = M7 Rear Right+

B2 = M8 Rear Right -

B3 = M3Front Right+

Front Right-B4 = M7

B5 = M1Front Left+ Front Left-

B6 = M2

B7 = M2Rear Left+

Rear Left -B8 = M6

Loudspeakers

Blue

Blue / Black

Grey

Grey / Black

Green

Green / Black

Brown

Brown / Black

E Aerial Plug F1 Fuse

Din 41585

F1: Fuse 5A

#### **TECHNICAL DATA**

**GENERAL** 

Power supply Dimensions

:14.4V DC

:180x150x51 mm

CASSETTE Cassette mechanism Number of tracks

Tape speed Wow and flutter

Crosstalk

:CDS 36 PR

:2x2

:4.75 cm/sec

:≤ 0.35% (+10° to +45°)

:≥ 21dB

**RADIO** 

LW MW FM

IF-AM

: 144-288 KHz\* : 531-1629 KHz\*

: 87.5-108 MHz : 450 KHz / 10.7 MHz\*

IF-FM Sensivity 26dB S/N

:3,5 µV (FM)

Limitation α-3dB

: 10.7 MHz / 72.2 MHz : 24 µV (LW)\*

: 18 µV (MW)\*

:3 to 15 µV

**AMPLIFIER** 

Output power Loudness

Treeble control Bass control

Balance control

Fader Mute

 $4x5W / 4\Omega (D = 10\%)$ 

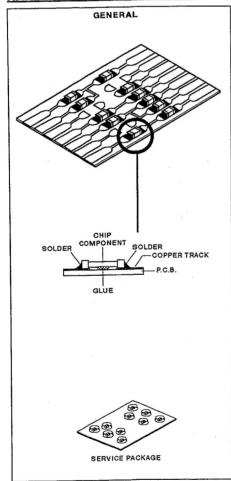
:+7dB ± 2dB at 60Hz :+10/-10 ± 2dB at 10kHz

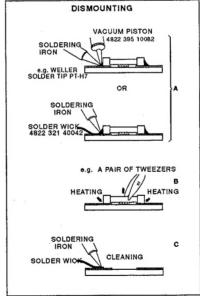
:+12/-12 ± 2dB at 60Hz

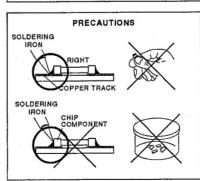
:>12dB :>12dB :-70dB

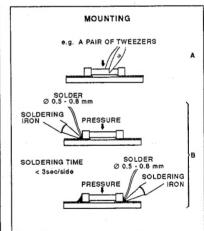
(\* Exept 22DC315)

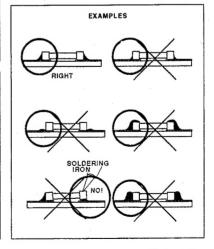
## HANDLING CHIP COMPONENTS

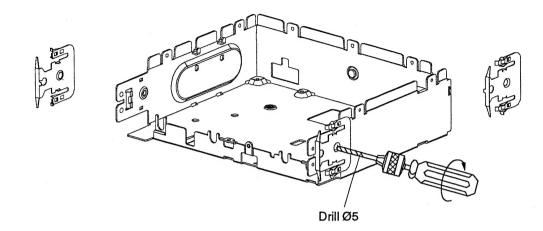












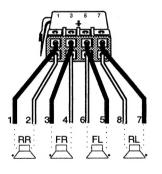
If a Mounting Spring needs to be changed, you have to first eliminate the fastening by drilling it out with a Ø5mm hand-drill

For the fixing of the new one , use a counter-sunk screw Ø3mm, length 5 or 6mm and an M3 nut

### **LOUDSPEAKERS CONNECTION**

4 Loudspeakers

4X4.5W



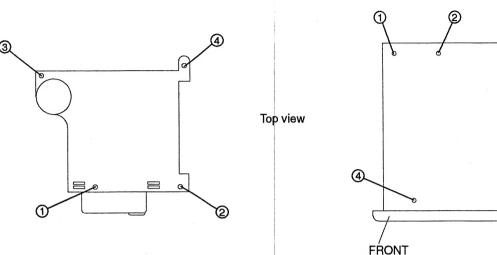
**ESD** 



#### WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

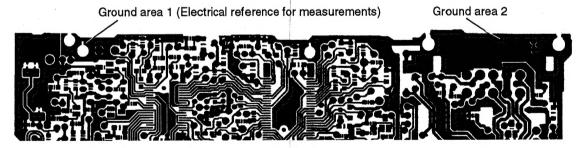


#### **REMOVING THE PWB**

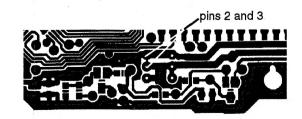
- 1) Disconnect all the cables and flex foils, and disengage the lamp from the light box of the LCD
- 2) Remove the front
- 3) Remove the deck (see screwing sequence)
- 4) Disengage the lamps from the metal frame
- 5) Remove the transparent LED
- 6)Remove the bracket of the power IC
- 7) remove the antenna plug bracket
- Now you can remove the PWB (see screwing sequence)

#### CONNECTING THE PWB FOR MEASUREMENTS ON THE COPPER SIDE.

- 1) Connect a wire (by soldering) between ground areas 1 and 2.
- 2) Short circuit the pins 2 and 3 of the detection switch.
- 3) Reconnect the flat foils of the front and the supply cable. Also reconnect the tape deck.



Main PWB copper side



**SCREWING SEQUENCE PWB** 

#### INTEGRATED CIRCUITS

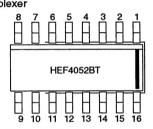
#### TDA1579T Decoder for traffic warning radio transmissions

SYMBOL	PIN	DESCRIPTION	
SK	1	SK indicator	
DKout	2	DK output current	
SKout	3	SK output current	] 1 [
τΒΚ	4	tirne delay BK	2 [
V <sub>5BK</sub>	5	filter output BK	3 5
V <sub>6BK</sub>	6	filter input BK	
V <sub>P</sub>	7	supply voltage	4 [
V <sub>P</sub> /2	8	half supply voltage	5 [
V <sub>9SK</sub>	9	SK detector output	6 [
n.c.	10	not connected	7 [
n.c.	11	not connected	8 [
V <sub>12SK</sub>	12	57kHz band pass filter	9 🗆
V <sub>AGC</sub>	13	AGC	10_
114	14	prestage biasing current	
V <sub>MPX</sub>	15	MPX input	
V <sub>16DK</sub>	16	filter input DK	
V <sub>17DK</sub>	17	filter output DK	
τDK	18	time delay DK	
119	19	reference current for BK, DK detector	

1 🖂		20
3	TDA1579T	19 18 17 16
6		15 14 13
9 10		12

#### HEF4052BT Dual 4 channel analogue multi/demultiplexer

HEF4U52	BID	iai 4 channel analogue mulu/den
SYMBOL	PIN	DESCRIPTION
Y <sub>OB</sub>	1	independant input/output 0 <sub>B</sub>
Y <sub>2B</sub>	2	independant input/output 2 <sub>B</sub>
Z <sub>B</sub>	3	common input/output B
Y <sub>3B</sub>	4	independant input/output 3 <sub>B</sub>
Y <sub>1B</sub>	5	independant input/output 1 <sub>B</sub>
E	6	enable input (active LOW)
V <sub>EE</sub>	7	ground
V <sub>SS</sub>	8	ground
A <sub>1</sub>	9	address input 1
A <sub>0</sub>	10	address input 0
Y <sub>3A</sub>	11	independant input/output 3 <sub>A</sub>
YOA	12	independant input/output 0A
Z <sub>A</sub>	13	common input/output A
Y <sub>1A</sub>	14	independant input/output 1 <sub>A</sub>
Y <sub>2A</sub>	15	independant input/output 2 <sub>A</sub>
V <sub>DD</sub>	16	supply



FUNCTION TABLE

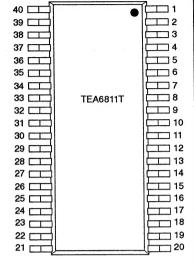
. 0110	TOTTOTTOTT TABLE						
	inputs		channel				
Ē	A <sub>1</sub>	A <sub>0</sub>	ON				
L	L	L	Y <sub>OA</sub> -Z <sub>A</sub> ; Y <sub>OB</sub> -Z <sub>B</sub>				
L	L	Н	Y <sub>1A</sub> -Z <sub>A</sub> ; Y <sub>1B</sub> -Z <sub>B</sub>				
L	Н	L	Y <sub>2A</sub> -Z <sub>A</sub> ; Y <sub>2B</sub> -Z <sub>B</sub>				
L	Н	Н	Y <sub>3A</sub> -Z <sub>A</sub> ; Y <sub>3B</sub> -Z <sub>B</sub>				
H	Х	Х	none				

#### **TEA6821T**

SYMBOL	PIN	DESCRIPTION	SYMBOL	PIN	DESCRIPTION
QDET1	1	demodulator tank	FMIFAMPOUT	29	FM-IF amplifier output
QDET2	2	demodulator tank	AFGND	30	AF ground
TSWITCH	3	time switch	DEEMPHR	31	de-emphasis capacitor right
GND	4	analog ground	DEEMPHL	32	de-emphasis capacitor left
VPS	5	5 V supply voltage	AMIF2IN1	33	AM IF2 input1
HFBUS1	6	HF bus, pull-up to 5 V	AMIF2IN2	34	AM IF2 input2
HDBUS2	7	HF bus, pull-up to 5 V	FMIN2	35	FM limiter input
XTAL1	8	crystal oscillator	DCFEED	36	DC feed FM limiter
XTAL2	9	crystal oscillator	FMIN1	37	FM limiter input
F <sub>REFP</sub>	10	PLL reference frequency	LEVELADJ	38	level adjust
F <sub>REFN</sub>	11	PLL reference frequency	C <sub>AFC</sub>	39	AFC capacitor
I <sub>REF</sub>	12	reference current	MPBUF	40	multipath buffer time constant
FMIF1IN1	13	70 MHz FM-IF input	OUTLEFT	41	AF output left
FMIF1IN2	14	70 MHz FM-IF input	FMSTOP	42	FMSTOP adjust
TSDR	15	time constant for SDR	RDS/AMSTOP	43	MPX for RDS/AMSTOP adjust
TSDS	16	time constant for SDS	OUTRIGHT	44	AF output right
V <sub>SDS</sub>	17	SDS control voltage	MPXIN	45	stereo decoder MPX input
V <sub>SDR</sub>	18	SDR control voltage	IACIN	46	IAC input
FMIF2OUT1	19	FM mixer output	MPXOUT	47	FM demodulator MPX output
FMIF2OUT2	20	FM mixer output	AMAFOUT	48	AM demodulator AF output
V <sub>BEF</sub>	21	reference voltage	V <sub>MUTAML</sub>	49	mute voltage / AM level
AMIF2OUT1	22	AM mixer output	LEVELUNWEIG	50	level unweighted
AMIF2OUT2	23	AM mixer output	IACCONTR	51	IAC control voltage
FMAMDEC	24	FM/AM 10.7 MHz decoupling	V <sub>PDIG</sub>	52	V <sub>P</sub> digital
PHASEDET	25	phase detector	SDA	53	SDA, pull-up to 5 V
PILDET	26	pilot detector	SCL	54	SCL, pull-up to 5 V
FMAM10.7	27	FM/AM 10.7 MHz input	BUSGND	55	bus ground

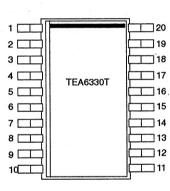
#### TEA6811 IC91 RF IC

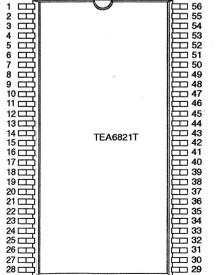
SYMBOL	PIN	DESCRIPTION	SYMBOL	PIN	DESCRIPTION
GNDANF	1	analog ground 5 V	GNDAMM	21	ground AMMIXER
VCCANF	2	analog supply 5 V	AMPREO	22	AMPREAMP output
LCKDET	3	lock detector flag	NC	23	
SDA	4	I2C bus data	AMSBI	24	AM feedback switch SB1
SCL	5	I2C bus clock	AMSBII	25	AM feedback switch SB2
FREFN	6	ref frequency from I2C N-terminal	AMPREI	26	AMPREAMP input
FREFP	7	ref frequency from I2C P-terminal	AMCAGC	27	AM AGC capacitor
GNDDIF	8	digital ground	AMCPRE	28	AM preamp decoupling capacitor
VCCDIF	9	digital supply 5 V	GNDRF	29	RF ground
NC	10		FMRFIP	30	FM MIXER inputs RF
FMIFON	11	outputs of FM-mixer of	FMRFIN	31	T M MIXET Inputs 11
FMIFOP	12	first IF (72.2 MHz)	IPIDIO	32	pin diode drive
VCCE	13	analog supply 8.5 V	FMAGC	33	FM AGC integrating capacitor
GNDE	14	analog ground 8.5 V	REFAGC	34	FM AGC reference voltage
AMMOP	15	outputs of AMMIXER	OSCFDB	35	oscillator FEEDBACK input
AMMON	16	of first IF (10.7 MHz)	GNDOSC	36	oscillator ground
NC	17	-	OSCTNK	37	oscillator tank output
AMMIN	18	AMMIXER input RF	VCCOSC	38	supply voltage VCO
VREF	19	reference voltage from AMBANDGAP	VTUNE	39	tuning voltage
NC	20		CHPOUT	40	charge pump output

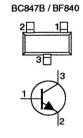


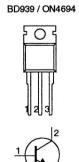
#### TEA6330T Sound FAder Control circuit (SOFAC)

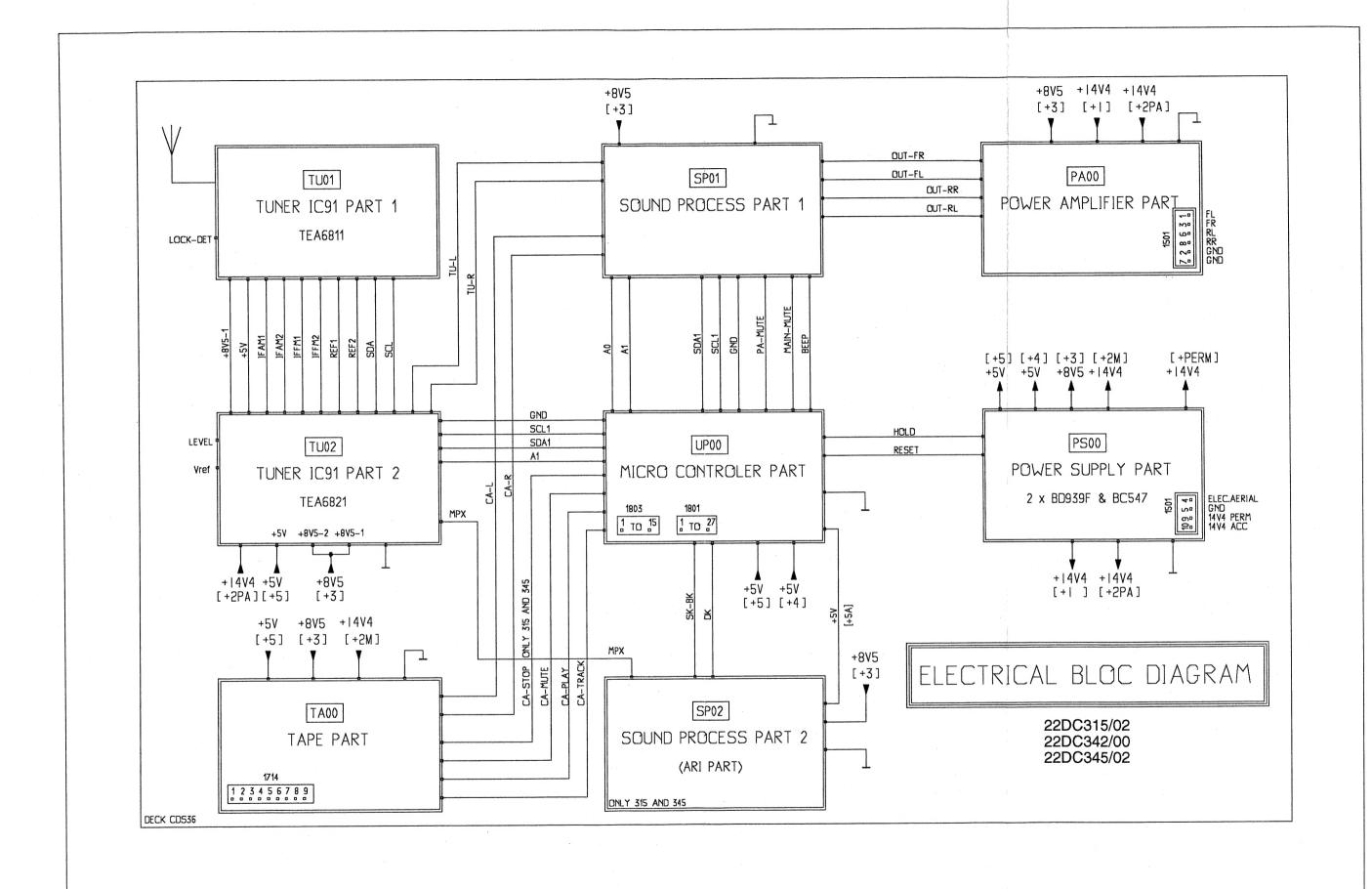
SYMBOL	PIN	DESCRIPTION
C <sub>PS</sub>	1	filtering capacitor for power supply
IN-R	2	audio input signal RIGHT
GND1	3	analog ground (0 V)
C <sub>BR1</sub>	4	capacitor for bass control RIGHTand signal to equalizer
C <sub>BR2</sub>	5	capacitor for bass control RIGHT
CTR	6	capacitor for treble control RIGHT, input signal for equalizer RIGHT
QRR	7	right audio output signal of rear channel
QRF	8	right audio output signal of front channel
MUTE	9	input to set mute externally
GND2	10	digital ground (0 V) for bus control
SCL	11	clock signal of I <sup>2</sup> C-bus
SDA	12	data signal of I <sup>2</sup> C-bus
QLF	13	left audio output signal of front channel
QLR	14	left audio output signal of rear channel
C <sub>TL</sub>	15	capacitor for treble control LEFT, input signal for equalizer LEFT
C <sub>BL2</sub>	16	capacitor for bass control LEFT
C <sub>BL1</sub>	17	capacitor for bass control LEFT and signal to equalizer
V <sub>p</sub>	18	+8.5 V supply voltage
IN-L	19	audio input signal LEFT
V <sub>ref</sub>	20	reference voltage output (V <sub>p</sub> /2)











#### DC VOLTAGES 7202 TEA6811V 7402 TDA7374V 9 = GND 1 = GND 21 = GND 1 = 7.0 V10 = N.C. 2 = 3.0 V22 = 1.8 V2 = 7.0 V11 =0.7 V 3 = 4.9 V23 = GND 3 = 14.4 V4 = 5.1 V SDA 12 =0.7 V 24 = 0.1 V4 = 0.7 V5 = 5.1 V SCL13 = 14.4 V25 = 0.2 V5 = 0.7 V26 = 2.8 V 27 = 0.1 V 6 = 5.0 V6 = 0.7 V14 = 7.0 V7 = 4.9 V15 = 7.0 V7 = 6.6 V8 = GND 28 = 0.1 V8 = Earth9 = 5.2 V29 = GND10 = GND 30 = 3.1 V11 = 8.5 V31 = 3.1 V7602 HEF 4052BT 12 = 8.5 V32 = 0.0 V33 = 4.2 V 34 = 4.2 V 13 =8.5 V 1 = 3.4 V9 = 0.0 V14 = GND 2 = 5.5 V10 = 0.0 V15 = 8.4 V35 = 2.6 V3 = 3.4 V11 = 3.4 V 16 = 8.4 V36 = GND 4 = 3.4 V12 = 3.5 V17 = GND 37 = 6.2 V5 = 3.8 V13 = 3.4 V18 = 0.1 V38 = 8.4 V6 = GND14 = 3.9 V19 = 0.0 V39 = 3.0 V7 = GND15 = 5.5 V20 = GND 40 = 3.0 V8 = GND 16 = 7.7 V7300 TEA6821T/V2 7605 TEA 6330 1 = 4.0 V 29 = 6.2 V2 = 4.0 V30 = 1.8 V1 = 7.7 V11 = 5.1 V SCL 3 = 0.8 V31 = 2.3 V12 = 5.1 V SDA 2 = 3.8 V4 = GND32 = 2.3 V3 = GND 13 = 3.9 V5 = 5.0 V33 = 0.7 V4 = 3.9 V14 = 3.9 V6 = 5.0 V SDA 34 = 1.0 V5 = 3.9 V15 = 3.9 V7 = 5.0 V SCL35 = 2.7 V6 = 3.9 V16 = 3.9 V $8 = 61.5 \, \text{MHz}$ 37 = 2.7 V7 = 3.9 V17 = 3.9 V9 = 61.5 MHz 37 = 2.7 V8 = 3.9 V18 = 7.7 V10 = 5.0 V38 = 1.7 V9 = 7.7 V 19 = 3.9 V 11 = 4.9 V 39 = 3.3 V10 = GND 20 = 3.9 V12 = 4.2 V40 = 0.7 V13 =2.3 V 41 = 3.5 V14 = 2.3 V42 = 1.9 V 43 = 3.0 V 44 = 3.4 V 15 = N.C.16 = 5.0 V17 = 2.5 V45 = 2.8 V18 = 1.4 V46 = 3.2 V19 = 8.4 V 47 = 3.2 V20 = 8.4 V48 = 4.5 V21 = 5.0 V49 = 5.0 V 50 = 5.2 V 51 = 4.9 V 22 = 8.5 V23 = 8.5 V24 = 3.0 V52 = 5.1 V25 = 4.7 V53 = 5.1 V26 = 2.7 V54 = 5.1 V27 = 2.9 V55 = GND 28 = 8.5 V56 = 8.5 V7401 HEF 4052BT 9 = GND 1 = 3.9 V2 = GND10 = 6.4 V3 = 3.9 V11 = GND 4 = GND12 = 3.9 V13 = 3.9 V5 = 3.9 V6 = GND14 = 3.9 V7 = GND15 = GND

#### **CHECK AND ALIGNMENT**

For checking and ac	djusting s	ee general procedures				·					
Check	SK		$\Diamond$		Setting of controls	0 0					
Demodulated	,	98 MHz 1 mV Δf=22.5 KHz f mod = 1 KHz				8 210 mV ± 40 mV					
FM levels	FM	98 MHz 1 mV Δf = 6.75 KHz f mod = 19 KHz	B			8 60 mV ± 10 mV					
	·	98 MHz 1 mV Δf = 3.75 KHz f mod = 57 KHz				8 30 mV ± 10 mV					
Demodulated AM level (Only 342 and 345)	MW	1053 KHz 1 mV 1 KHz, 30% AM	(A)			250 mV ≤ 9 ≤ 350 mV					
VC FM	FM		B	87.5 MHz 108 MHz		10 > 1.2 V 10 < 5.5 V					
V/O ANA	LW			144 KHz		10 > 1.2 V					
VC AM (Only 342 and 345)	MW		(A)	1611 KHz		₹0 < 7.0 V					
	FM	·				93 MHz 1mV				\$ 6 0 dB (775 mV)	
FM Mute		No signal	B			(5) (6) < -10 dB					
0 Discriminator						4 3.4 V ± 400 mV					
Reference oscillator frenquencies						1 61.5 MHz ± 3kHz 2 6 MHz ± 0.5% 3 6 MHz ± 0.5%					
Alignment	SK	<b>⊘</b> →		$\Diamond$			A)				

Alignment	SK	$\overset{\frown}{\otimes} \rightarrow$	$\Diamond$			0 0
	FM	88 MHz 20μV no AF signal	B	88 MHz	5201	1.35 V ± 50 mV
	FM	93 MHz <20 μV no AF signal	B	93 MHz	5209 5210	Max DC voltage on pin 50 of IC 7300
	FM	93 MHz 20μV no AF signal	B	93 MHz	5208	Max DC voltage on pin 50 of IC 7300
	AM (Only 342 and 345)	1053 KHz 70μV 1 kHz 30%	(A)	1053 KHz	5301	Max DC voltage on pin 50 of IC 7300
Audio limiting	FM -	98 MHz 1 mV Δf=22.5 KHz f mod = 1 KHz				⟨\$⟩ ⟨6⟩ 0 dB (775 m\
Addio inflitting	I IVI	98 MHz 6 μV Δf=22.5 KHz f mod = 1 KHz	B		3321	⟨5⟩ ⟨6⟩ -3 dB

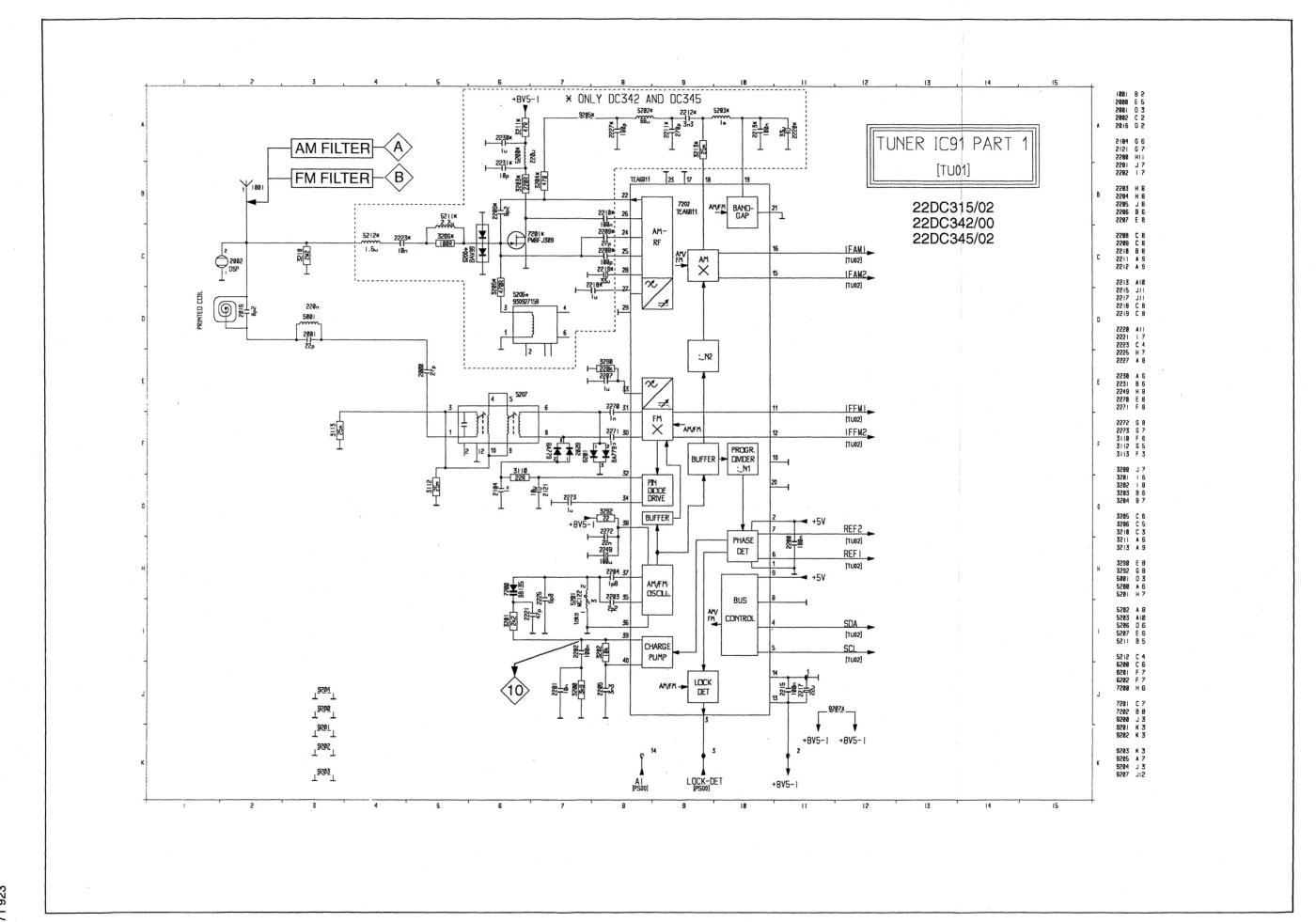
22DC315/02 22DC342/00 22DC345/02

71 922

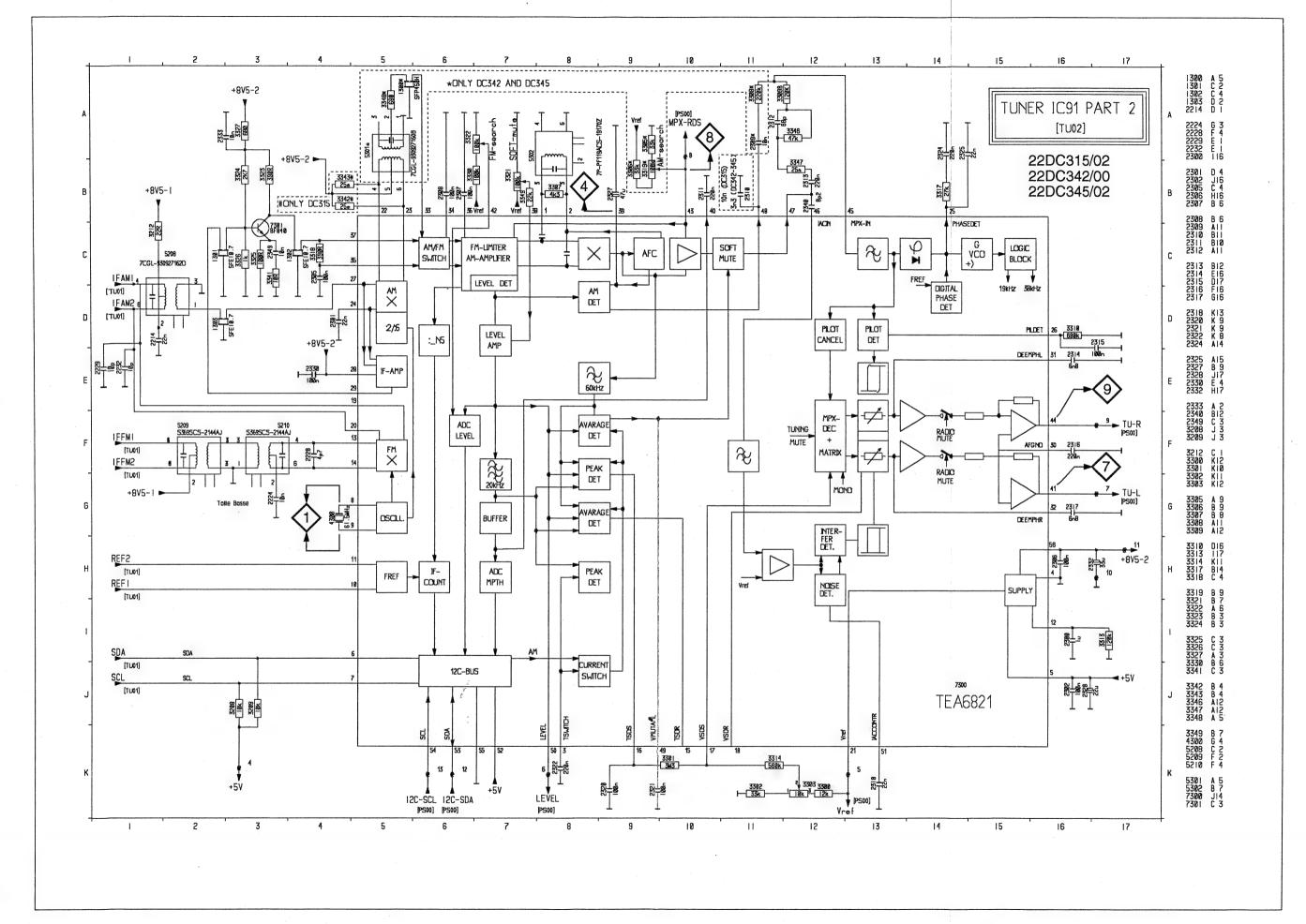
**PCS** 

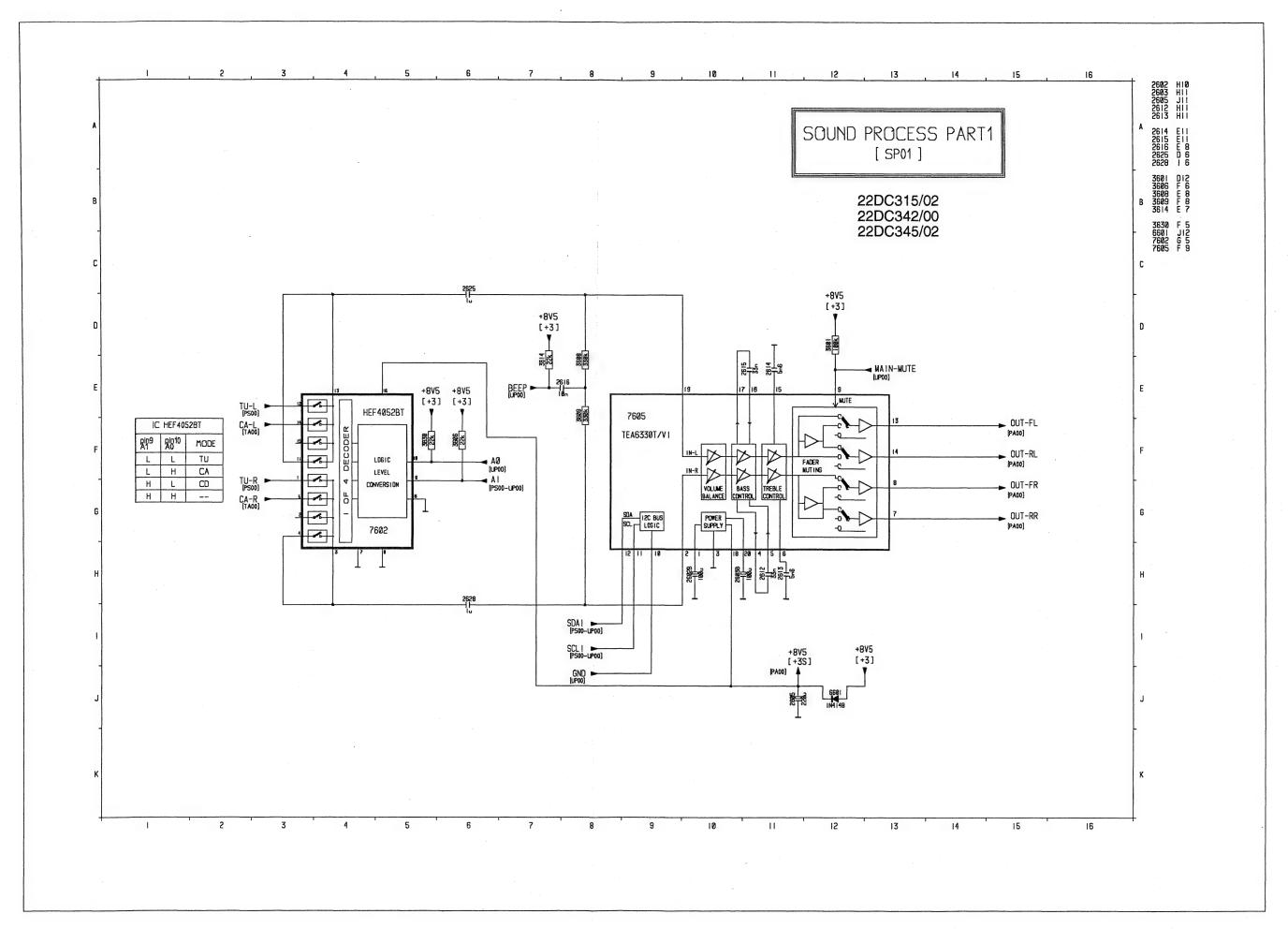
8 = GND

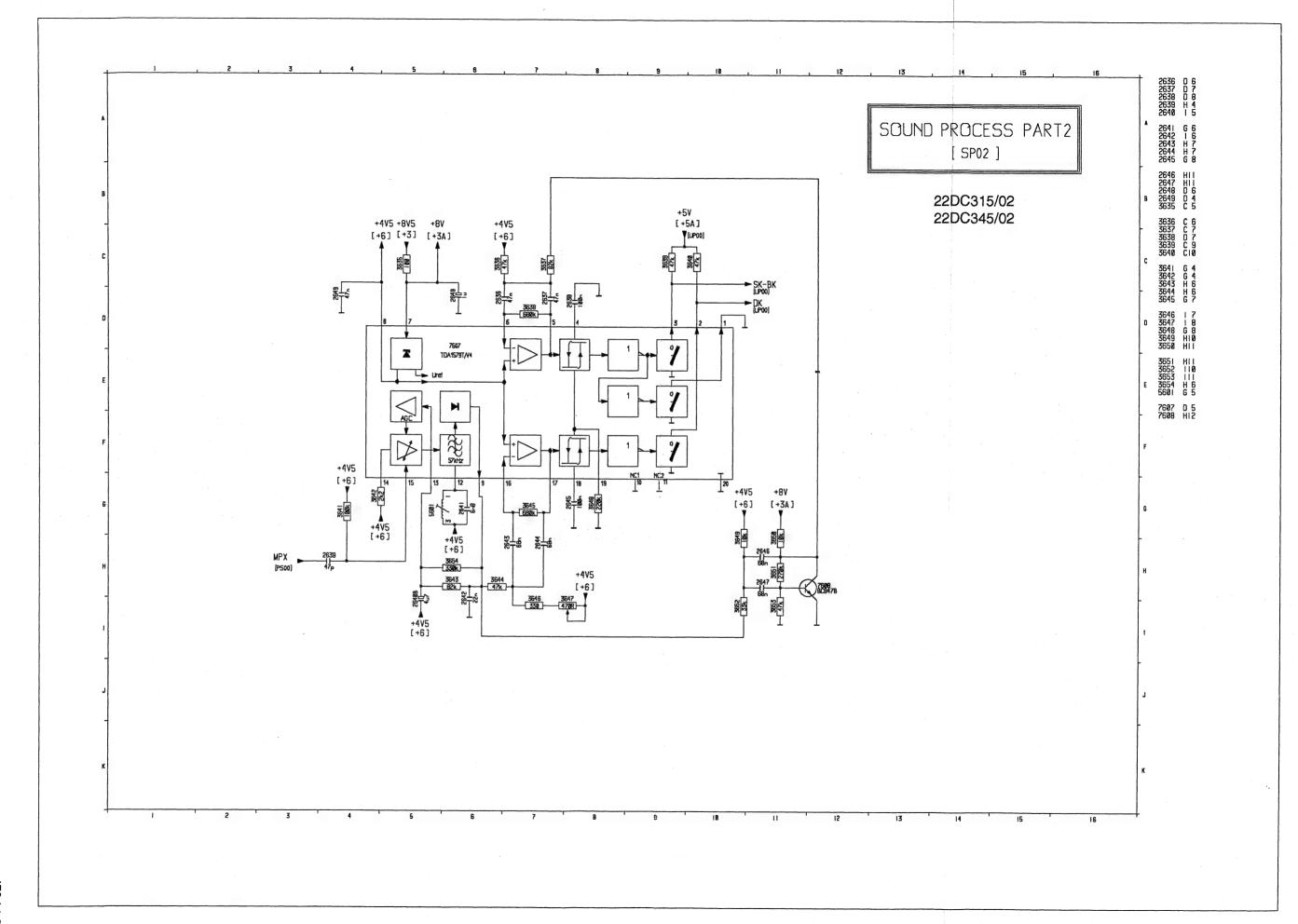
16 = 7.7 V

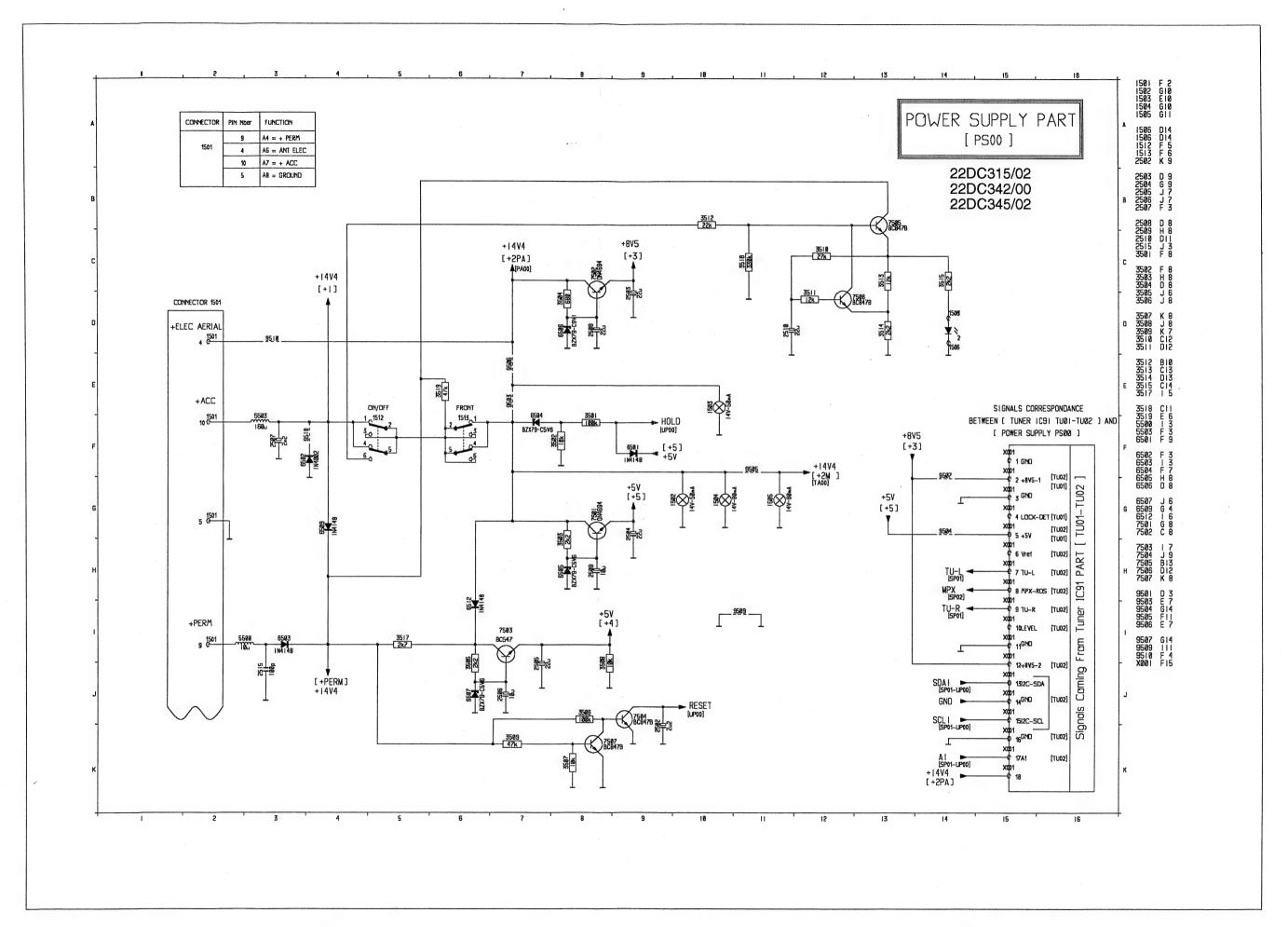


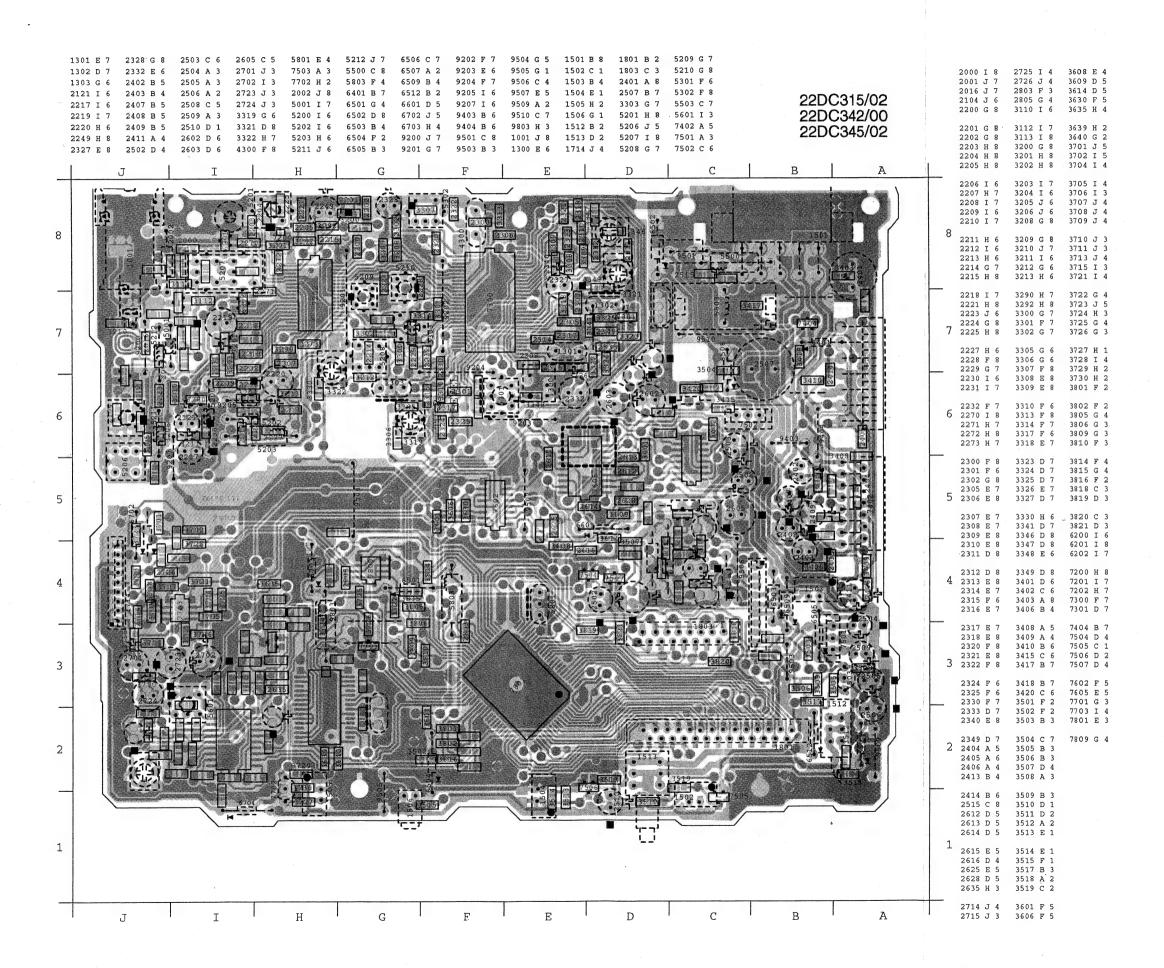
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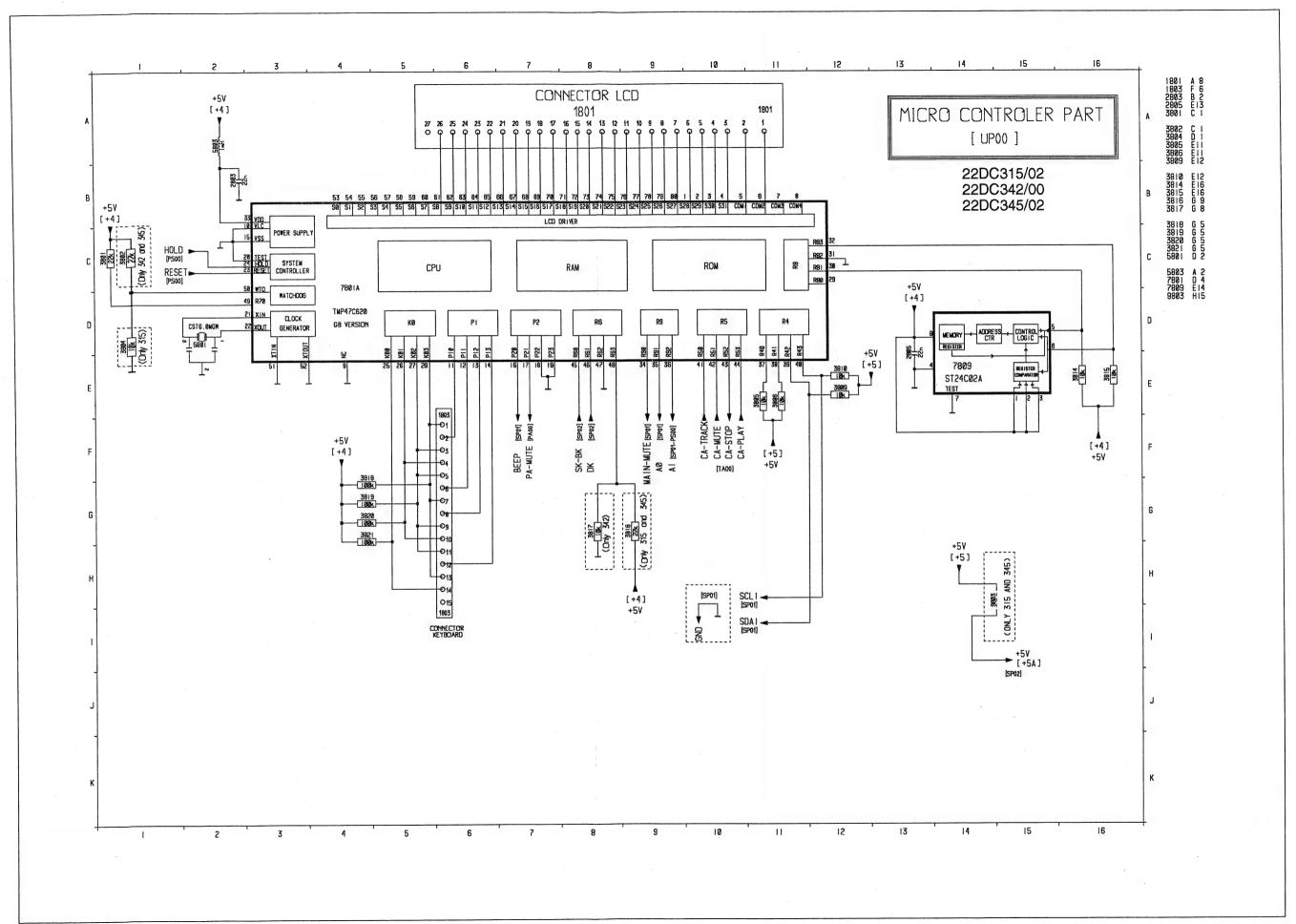






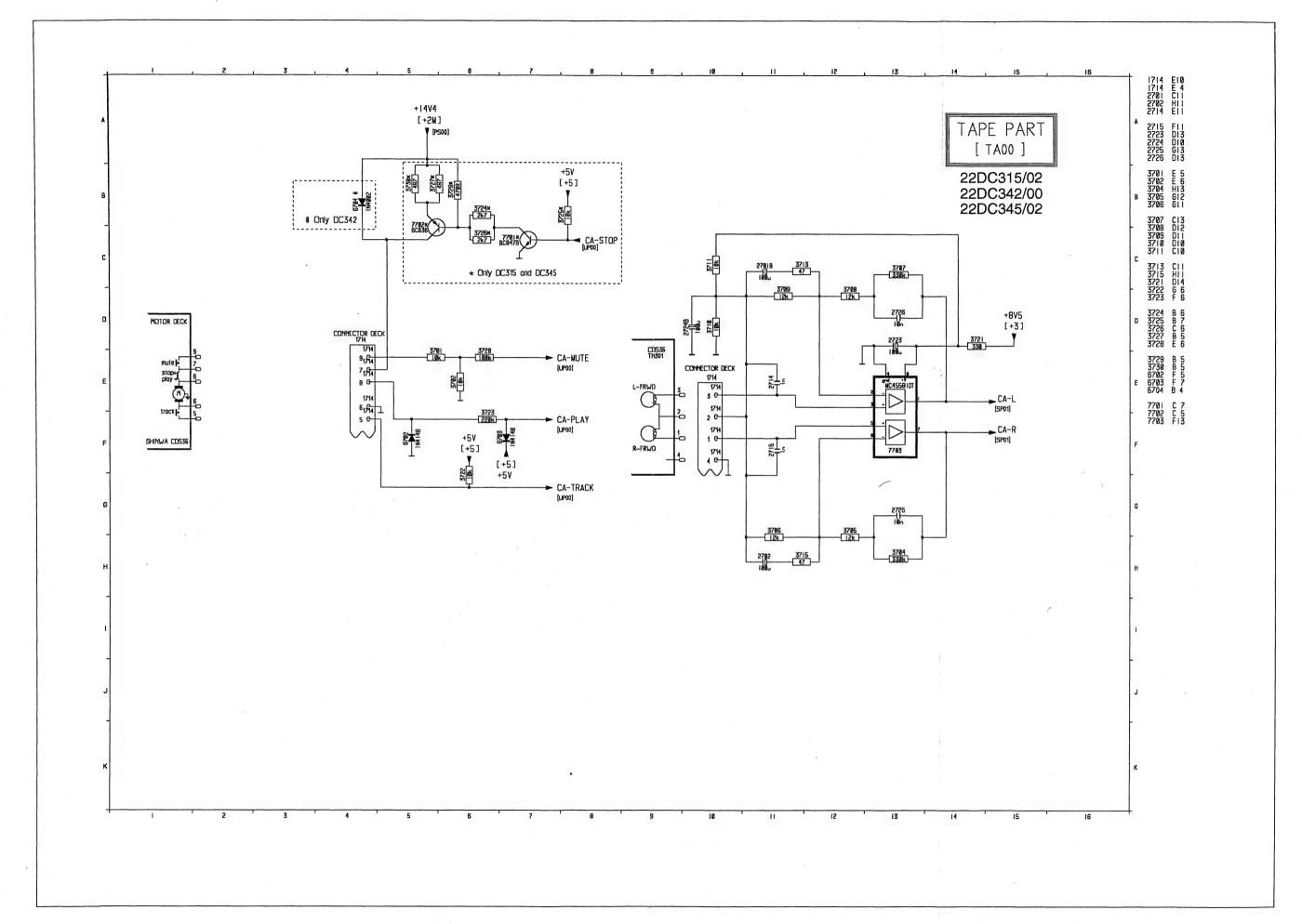


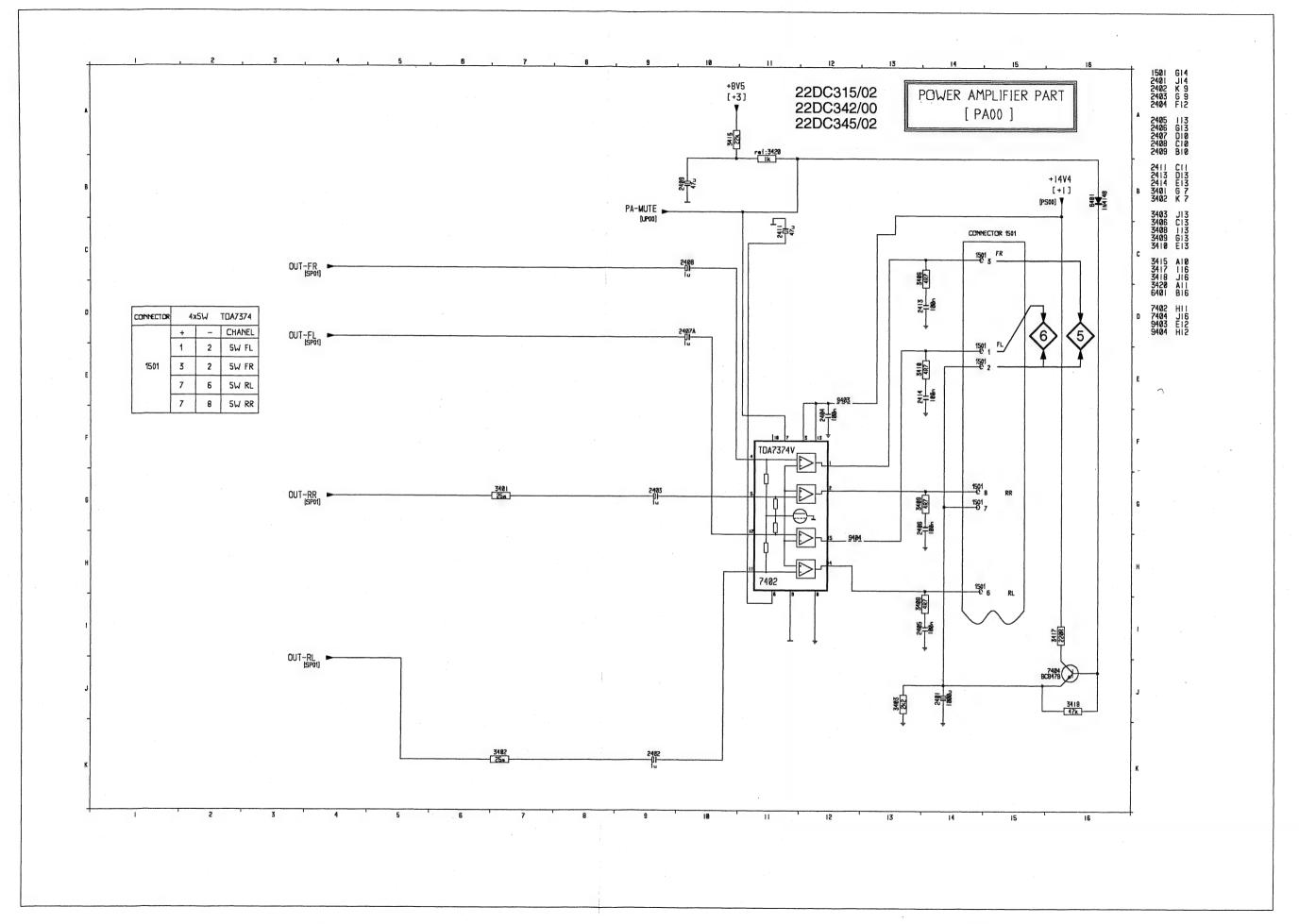


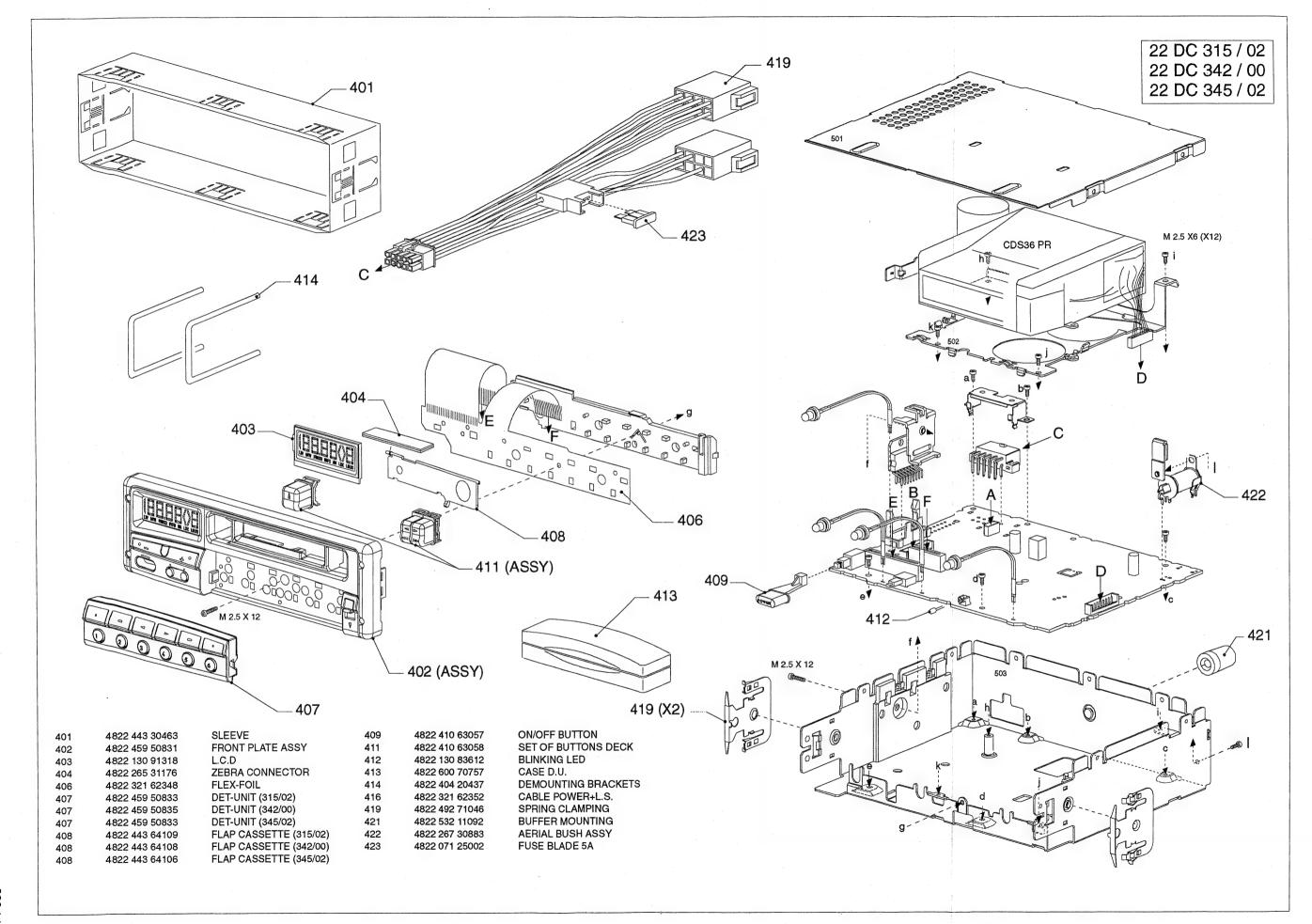


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Miscell	laneous		-11-		
	4822 242 81503	SFP450H	2305	4822 122 33496	100NF10%X7R 63V
1300 1301	4822 242 73779	SFE10,7MS3-K18-A	2306	4822 122 33496	100NF10%X7R 63V
	4822 242 73779	SFE10,7MS3-K18-A	2307	4822 122 33496	100NF10%X7R 63V
1302		SFE10,7MS3-K18-A	2308	4822 122 33496	100NF10%X7R 63V
1303	4822 242 73779	10P	2309	5322 122 34098	10NF10%X7R 63V
1501	4822 265 41379	10P	2309	5522 122 54096	10NF10%X/H 63V
1502	4822 134 41174	50MA 14V T1.25	2310	5322 122 34098	10NF10%X7R 63V (315)
1503	4822 134 41 <b>1</b> 73	50MA 14V T1.25	2310	5322 122 33446	3,3NF10%X7R63V(342-345)
1504	4822 134 41 <b>1</b> 75	80MA 14V T1.25	2311	4822 126 12772	220NF10% X7R 25V
1505	4822 134 41 <b>1</b> 75	80MA 14V T1.25	2312	4822 122 33514	68PF 5%NP0 50V
1512	4822 276 13 <b>4</b> 83	SWITCH	2313	4822 126 12772	220NF10% X7R 25V
1513	4822 276 13 <b>4</b> 84	SWITCH	2314	5322 122 31866	6,8NF10%X7R 63V
1714	4822 265 41385	CONNECTOR 9P	2315	4822 122 33496	100NF10%X7R 63V
1801	4822 267 60378	CONNECTOR 27P	2316	4822 126 12772	220NF10% X7R 25V
1803	4822 267 50915	CONNECTOR 15P	2317	5322 122 31866	6,8NF10%X7R 63V
	4022 207 000 10		2318	5322 122 32654	22NF10%X7R 63V
41-			0000	4000 400 00400	4001/5400/755 001/
2000	5322 122 31946	27PF 10% 50V	2320	4822 122 33496	100NF10%X7R 63V
2001	5322 122 32658	22PF 5% 50V	2321	4822 122 33496	100NF10%X7R 63V
2002	4822 252 60125	DSP-201M-A21F	2322	4822 126 12772	220NF10% X7R 25V
2002	5322 122 33244	8,2PF 5%NPO 50V	2324	4822 126 12772	220NF10% X7R 25V
2104	5322 122 34123	1NF10%X7R 50V	2325	5322 122 32654	22NF10%X7R 63V
		AALIE ASS	2327	4822 124 23256	47UF 16V
2121	4822 124 41017	10UF 16V	2328	5322 124 41431	22UF20% 35V
2200	4822 122 33496	100NF10%X7R 63V	2330	4822 122 33496	100NF10%X7R 63V
2201	5322 122 34098	10NF10%X7R 63V	2332	4822 124 80837	33UF20% 16V
2202	4822 122 33496	100NF10%X7R 63V	2333	5322 122 34098	10NF10%X7R 63V
2203	5322 122 33063	2,2PF 5%NP0 50V			
2204	5322 126 10343	1,8PF 5%NP0 63V	2340	5322 122 33244	8,2PF 5%NPO 50V
2204	5322 120 10040	3,3NF10%X7R 63V	2349	5322 122 34098	10NF10%X7R 63V
2206	5322 122 33244	8,2PF 5%NPO 50V	2401	4822 124 40201	1000UF20% 16V
2207	4822 126 11692	1UF	2402	4822 124 40242	1UF20% 63V
2207	5322 122 32531	100PF 5%NP0 50V	2403	4822 124 40242	1UF20% 63V
			2404	4822 122 33496	100NF10%X7R 63V
2209	5322 122 31946	27PF 10% 50V	2405	4822 122 33496	100NF10%X7R 63V
2210	4822 122 33496	100NF10%X7R 63V	2406	4822 122 33496	100NF10%X7R 63V
2211	4822 122 33216	270PF 5%NP0 50V	2407	4822 124 40242	1UF20% 63V
2212	5322 122 33446	3,3NF10%X7R 63V 100NF10%X7R 63V	2408	4822 124 40242	1UF20% 63V
2213	4822 122 33496	100NF 10%A/H 63V		4000 40 1 2227	47115 4017
2214	5322 122 32654	22NF10%X7R 63V	2409	4822 124 23256	47UF 16V
2215	4822 122 33496	100NF10%X7R 63V	2411	4822 124 23256	47UF 16V
2217	4822 124 23279	22UF20% 16V	2413	4822 122 33496	100NF10%X7R 63V
2218	4822 126 11692	1UF	2414	4822 122 33496	100NF10%X7R 63V
2219	4822 124 80837	33UF20% 16V	2502	4822 124 40244	2,2UF20% 63V
		a al (Macara and I	2503	5322 124 41431	22UF20% 35V
2220	4822 124 23281	33UF20% 16V	2504	5322 124 41431	22UF20% 35V
2221	5322 122 32452	47PF 5%NP0 63V	2505	5322 124 41431	22UF20% 35V
2223	5322 122 34098	10NF10%X7R 63V	2506	4822 124 40248	10UF20% 63V
2224	5322 122 34098	10NF10%X7R 63V	2507	4822 124 22412	2200UF 20% 16V
2225	5322 122 32269	6,8PF 5% 50V	2007	15765716	
2227	4822 126 10326	180PF 5%NP0 63V	2508	5322 124 41431	22UF20% 35V
2227		4.7PF 5%NP0 50V	2509	4822 124 40248	10UF20% 63V
2228	5322 122 32287	4,7PF 5%NPU 50V 10PF 5% 50V	2510	5322 124 41431	22UF20% 35V
2229	5322 122 32448	10PF 5% 50V 1UF	2515	5322 122 32531	100PF 5%NP0 50V
2230	4822 126 11692		2602	4822 124 80453	100UF20% 10V
2231	5322 122 32448	10PF 5% 50V		1000 101 100 100	400UF0cer (c)f
2232	5322 122 32448	10PF 5% 50V	2603	4822 124 80453	100UF20% 10V
2249	4822 124 41584	100UF 20% 10V	2605	4822 124 80836	220UF20% 10V
2270	5322 122 34123	1NF10%X7R 50V	2612	4822 122 33342	33NF10%X7R 63V
	5322 122 34123	1NF10%X7R 50V	2613	4822 122 32646	5,6NF10%X7R 50V
	5322 122 32654	22NF10%X7R 63V	2614	4822 122 32646	5,6NF10%X7R 50V
2271	3322 122 32034				
2271 2272			2615	4822 122 33342	33NF10%X7R 63V
2271 2272 2273	4822 126 11692	1UF	2615 2616	4822 122 33342 5322 122 34098	33NF10%X7R 63V 10NF10%X7R 63V
2271 2272 2273 2300	4822 126 11692 4822 126 11692	1UF			
2271 2272 2273	4822 126 11692		2616	5322 122 34098	10NF10%X7R 63V

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22DC315/02 22DC342/00 22DC345/02

11-					
2637	4822 122 32542	47NF10%X7R 63V	3323	4822 051 20391	390R00 5% 0,1W
263 <i>7</i> 2638					
	4822 122 33496	100NF10%X7R 63V	3324	4822 051 20272	2K70 5% 0,1W
2639	5322 122 32452	47PF 5%NP0 63V	3325	4822 051 20101	100R00 5% 0,1W
2640	4822 124 40246	4,7UF20% 63V	3326	4822 051 20102	1K00 5% 0,1W
2641	5322 122 31866	6,8NF10%X7R 63V	3327	4822 051 20681	680R00 5% 0,1W
2642	5322 122 32654	22NF10%X7R 63V	3330	4822 051 20104	100K00 5% 0,1W
2643		68NF10%X7R 63V	3341	4822 051 20109	,
	4822 122 32891				10R00 5% 0,1W
2644	4822 122 32891	68NF10%X7R 63V	3342	4822 051 20008	0R00 JUMP. (0805)
2645	4822 122 33496	100NF10%X7R 63V	3343	4822 051 20008	0R00 JUMP. (0805)
2646	4822 122 32891	68NF10%X7R 63V	3346	4822 051 20473	47K00 5% 0,1W
2647	4822 122 32891	68NF10%X7R 63V	3347	4822 051 20008	0R00 JUMP. (0805)
2648	4822 124 23282	1UF20% 50V	3348	4822 051 20681	680R00 5% 0,1W
					· ·
2649	4822 122 32542	47NF10%X7R 63V	3349	4822 051 20223	22K00 5% 0,1W
2701	4822 124 80453	100UF20% 10V	3401	4822 051 20008	OR00 JUMP. (0805)
2702	4822 124 80453	100UF20% 10V	3402	4822 051 20008	0R00 JUMP. (0805)
2714	5322 122 34123	1NF10%X7R 50V	3403	4822 051 20222	2K20 5% 0,1W
2715	5322 122 34123	1NF10%X7R 50V	3406	4822 051 20478	4R70 5% 0,1W
			1		·
2723	4822 124 80453	100UF20% 10V	3408	4822 051 20478	4R70 5% 0,1W
2724	4822 124 80453	100UF20% 10V	3409	4822 051 20478	4R70 5% 0,1W
2725	5322 122 34098	10NF10%X7R 63V	3410	4822 051 20478	4R70 5% 0,1W
2726	5322 122 34098	10NF10%X7R 63V	3415	4822 051 20223	22K00 5% 0,1W
2803	5322 122 32654	22NF10%X7R 63V	3417	4822 051 20221	220R00 5% 0.1W
					•
2805	5322 122 32654	22NF10%X7R 63V	3418	4822 051 20473	47K00 5% 0,1W
			3420	4822 051 20102	1K00 5% 0,1W
<b>─</b>			3501	4822 051 20104	100K00 5% 0,1W
3110	4822 051 20229	22R00 5% 0,1W	3502	4822 051 20103	10K00 5% 0,1W
3112	4822 051 20008	OROO JUMP. (0805)	3502		· · · · · · · · · · · · · · · · · · ·
3113	4822 051 20008	0R00 JUMP. (0805)		4822 051 20222	2K20 5% 0,1W
3200	4822 051 20392	3K90 5% 0,1W	3504	4822 051 20681	680R00 5% 0,1W
3201	4822 051 20222		3505	4822 051 20222	2K20 5% 0,1W
020 I	4022 031 20222	2K20 5% 0,1W	3506	4822 051 20104	100K00 5% 0,1W
3202	4822 051 20103	10K00 5% 0,1W	3507	4822 051 20103	10K00 5% 0,1W
3203	4822 051 20221	220R00 5% 0,1W			•
3204	4822 051 20471	470R00 5% 0,1W	3508	4822 051 20103	10K00 5% 0,1W
3205	4822 051 20471	470R00 5% 0,1W	3509	4822 051 20473	47K00 5% 0,1W
			3510	4822 051 20273	27K00 5% 0,1W
3206	4822 051 20101	100R00 5% 0,1W	3511	4822 051 20123	12K00 5% 0,1W
3208	4822 051 20103	10K00 5% 0,1W	0510	4000 054 00000	00/00 59/ 0 41/
3209	4822 051 20103	10K00 5% 0,1W	3512	4822 051 20223	22K00 5% 0,1W
		· ·	3513	4822 051 20123	12K00 5% 0,1W
3210	4822 051 20225	2M20 5% 0,1W	3514	4822 051 20222	2K20 5% 0,1W
3211	4822 051 20479	47R00 5% 0,1W	3515	4822 051 20222	2K20 5% 0.1W
3212	4822 051 20229	22R00 5% 0,1W	3517	4822 051 20272	2K70 5% 0,1W
3213	4822 051 20008	0R00 JUMP. (0805)			appliance and a second
3290	4822 051 20224	220K00 5% 0,1W	3518	4822 051 20334	330K00 5% 0,1W
			3519	4822 051 20473	47K00 5% 0,1W
3292	4822 051 20229	22R00 5% 0,1W	3601	4822 051 20104	100K00 5% 0,1W
3300	4822 051 20123	12K00 5% 0,1W	3606	4822 051 20223	22K00 5% 0,1W
3301	4822 051 20335	3M30 5% 0,1W	3608	4822 051 20334	330K00 5% 0,1W
3302	4822 051 20333	33K00 5% 0,1W			
		· ·	3609	4822 051 20334	330K00 5% 0,1W
3303	4822 100 20166	10K 30%LIN 0,1W	3614	4822 051 20223	22K00 5% 0,1W
3305	4822 051 20333	33K00 5% 0,1W	3630	4822 051 20223	22K00 5% 0,1W
3306	4822 051 20333	33K00 5% 0,1W	3635	4822 051 20101	100R00 5% 0,1W
3307	4822 051 20432	4K30 5% 0,1W	3636	4822 051 20101	47K00 5% 0,1W
3305	4822 DE1 20224	2201/00 59/ 0 11/1			,
3308 3309	4822 051 20224 4822 051 20124	220K00 5% 0,1W 120K00 5% 0,1W	3637	4822 051 20823	82K00 5% 0,1W
		680K00 5% 0,1W	3638	4822 051 20684	680K00 5% 0,1W
3310	4822 051 20684		3639	4822 051 20473	47K00 5% 0,1W
3313 3314	4822 051 20124 4822 051 20564	120K00 5% 0,1W	3640	4822 051 20473	47K00 5% 0,1W
3314	4822 051 20564	560K00 5% 0,1W	3641	4822 051 20104	100K00 5% 0,1W
3317	4822 051 20273	27K00 5% 0,1W	2640	4900 DE 1 00000	2K20 E9/ 0 4\M
3318	4822 051 20391	390R00 5% 0,1W	3642	4822 051 20222	2K20 5% 0,1W
3319	4822 100 11163	100K 30%LIN 0,1W	3643	4822 051 20823	82K00 5% 0,1W
3321	4822 100 11163	100K 30%LIN 0,1W	3644	4822 051 20473	47K00 5% 0,1W
	4822 100 11163	100K 30%LIN 0,1W	3645	4822 051 20684	680K00 5% 0,1W
3322					

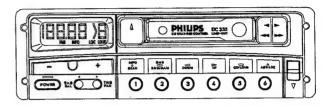
			∽~	1UF	
647	4822 100 11677	470R 30%LIN 0.2W	5301	4822 156 21724	IND VAR 7CGL 450KHz
	4822 051 20224	220K00 5% 0,1W	5302	4822 157 71061	IND VAR 7MM 7P 10MHz7
648	4822 051 20103	10K00 5% 0,1W	5500	4822 152 20677	LAL02 10U 10%
649			5503	4822 157 70839	COIL ASSY
650	4822 051 20103	10K00 5% 0,1W			IND VAR 7MM 7PD 57KHz
651	4822 051 20274	270K00 5% 0,1W	5601	4822 157 71056	
001	•		5801	4822 242 81002	CST6,00MGW-TF01
	4822 051 20333	33K00 5% 0,1W	5803	4822 157 50975	LAL04 1000UH 10%
652		47K00 5% 0,1W			
653	4822 051 20473		N	*	
3654	4822 051 20334	330K00 5% 0,1W	1	-PI	
3701	4822 051 20103	10K00 5% 0,1W	0000	5000 400 24227	BAV99
	4822 051 20103	10K00 5% 0,1W	6200	5322 130 34337	
3702	4822 051 20103	1010000,111	6201	4822 130 83613	BA779
			6202	4822 130 83613	BA779
3704	4822 051 20334	330K00 5% 0,1W	6401	4822 130 30621	1N4148
3705	4822 051 20123	12K00 5% 0,1W			1N4148
	4822 051 20123	12K00 5% 0,1W	6501	4822 130 30621	1144 140
3706					
3707	4822 051 20334	330K00 5% 0,1W	6502	4822 130 80291	1N4002GP
3708	4822 051 20123	12K00 5% 0,1W	6503	4822 130 30621	1N4148
.,					BZX79-C5V6
	4822 051 20123	12K00 5% 0,1W	6504	4822 130 34173	
3709			6505	4822 130 34173	BZX79-C5V6
3710	4822 051 20103	10K00 5% 0,1W	6506	4822 130 30862	BZX79-C9V1
3711	4822 051 20103	10K00 5% 0,1W			
3713	4822 051 20479	47R00 5% 0,1W	0507	4000 400 04470	BZX79-C5V6
	4822 051 20479	47R00 5% 0,1W	6507	4822 130 34173	
3715	4022 001 204/3	7,1100 0 /0 0,111	6509	4822 130 30621	1N4148
			6512	4822 130 30621	1N4148
3721	4822 051 20331	330R00 5% 0,1W	6601	4822 130 30621	1N4148
3722	4822 051 20103	10K00 5% 0,1W		4822 130 30621	1N4148
	4822 051 20224	220K00 5% 0,1W	6702	4022 130 30021	1117170
3723		·			
3724	4822 051 20272	2K70 5% 0,1W	6703	4822 130 30621	1N4148
3725	4822 051 20103	10K00 5% 0,1W	6704	4822 130 80291	1N4002GP
0			0,04	1022 :00 0020 :	
	4822 051 20272	2K70 5% 0,1W	~	pacennadan	
3726		· · · · · · · · · · · · · · · · · · ·	+	0000000000	
3727	4822 051 20478	4R70 5% 0,1W		1000 100 00011	DD49E
3728	4822 051 20104	100K00 5% 0,1W	7200	4822 130 83614	BB135
3729	4822 051 20471	470R00 5% 0,1W	7201	4822 130 63534	PMBFJ309
	4822 051 20478	4R70 5% 0,1W	7202	4822 209 33168	TEA6811V/C2/R1
3730	4022 001 20410	11.1.00.00,111	7300	4822 209 33167	TEA6821T/V2
3801	4822 051 20223	22K00 5% 0,1W	7301	4822 130 60887	BF840
3802	4822 051 20223	22K00 5% 0,1W			
	4822 051 20103	10K00 5% 0,1W	7402	4822 209 31132	TDA7374V
3804	• -	10K00 5% 0,1W	7404	4822 130 60511	BC847B
3805	4822 051 20103	, ,			
3806	4822 051 20103	10K00 5% 0,1W	7501	4822 130 62837	ON4694
			7502	4822 130 62837	ON4694
0000	4822 051 20103	10K00 5% 0,1W	7503	4822 130 44257	BC547
3809			, 555		
3810	4822 051 20103	10K00 5% 0,1W		1000 100 00511	DC947D
3814	4822 051 20103	10K00 5% 0,1W	7504	4822 130 60511	BC847B
3815	4822 051 20103	10K00 5% 0,1W	7505	4822 130 60511	BC847B
	4822 051 20223	22K00 5% 0,1W	7506	4822 130 60511	BC847B
3816	4022 001 20220	221300 0 /0 01111		4822 130 60511	BC847B
			7507		
3817	4822 051 20103	10K00 5% 0,1W	7602	5322 209 11102	HEF4052BT
3818	4822 051 20104	100K00 5% 0,1W			
	4822 051 20104	100K00 5% 0,1W	7605	4822 209 31979	TEA6330T/V1
3819					TDA1579T/V4
3820	4822 051 20104	100K00 5% 0,1W	7607	4822 209 31007	
3821	4822 051 20104	100K00 5% 0,1W	7608	4822 130 60511	BC847B
JJL 1			7701	4822 130 60511	BC847B
			7702	4822 130 44283	BC636
$\sim$	- 111		1102	7022 100 77200	
4000	4822 242 81698	AF9192C-A (61,5MHZ)		1000 000 00100	MOAFFOLDT
4300		LAL 02 A 0U22 5%	7703	4822 209 33162	MC4558IDT
5001	4822 156 21723		7801	4822 209 33191	TMP47C620F/N744
5200	4822 157 63315	LAL02 220UH	7809	5322 209 31723	ST24C02AM6
5201	4822 157 71059	IND VAR MC 122 100MHz	1 ,000		
	4822 152 20679	LAL02 68UH 10%			
5202	4022 102 20013	L/1202 00011 1070			
		1 41 44 4 4 4 1 1 1 4 6 4 4			
5203	4822 157 50975	LAL04 100UH 10%			
5206	4822 157 71057	IND VAR 47000UH 6%		4	
	4822 157 71058	FIL LC VAR 98M KZV-353			
5207	•	IND VAR 7CGL 10.7MHZ			
5208	4822 156 21722				
5209	4822 157 71055	IND VAR 5MM 5KM 72MHZ2	1		
3200					
i	1000 157 71055	IND VAR 5MM 5KM 72MHZ2			
			1		
5210	4822 157 71055		[		
5210 5211	4822 156 21721 4822 156 21719	LAL02 2U2 10% LAL02 1U5 10%			

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# Cassette car radio 22DC315/02

Service Service Service

22DC342/00 22DC345/02



Supplement

12 V 🖯

Supplement to the Service Manual 4822 725 24343

From FD02, PWB index 3 has been applied.

For DC315 and DC345, FD02 marks the end of validity of the Service Newsletter 1994-R 01.

You will find in this supplement the schematic diagrams with changed values, the new layout, the updated electrical partslist and some corrections to the service manual.

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Corrections to the Service Manual	2
Sound Process part 2 schematic diagram	3 - 3a
Microcontroller part schematic diagram	4 - 4a
PWB Layout	5 - 5a
Electrical partslist	6 - 6a - 7

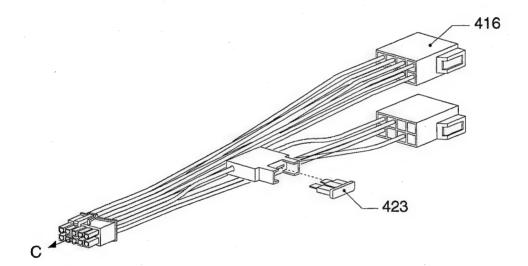
4822 725 24348

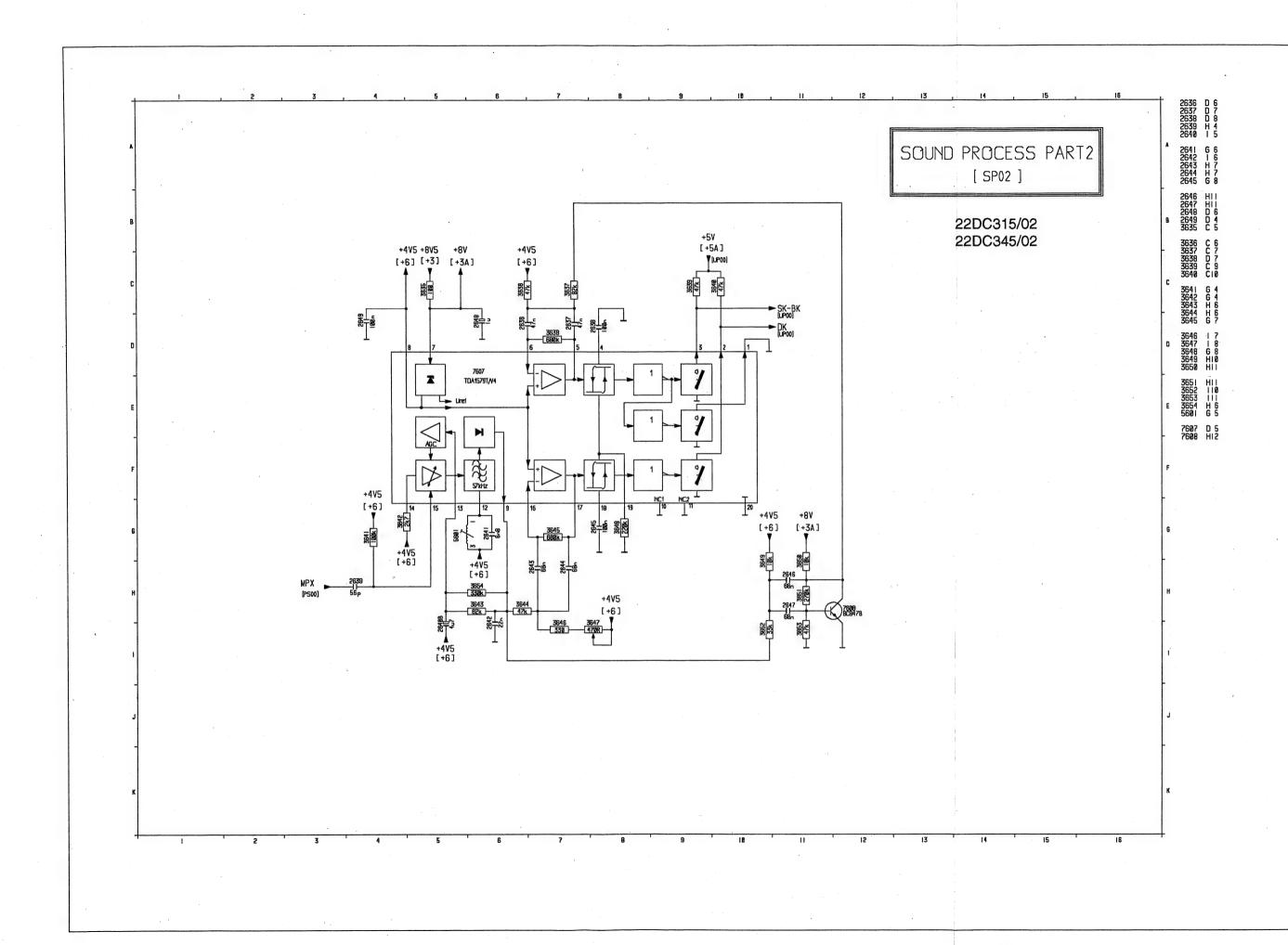
# Corrections to the service manual:

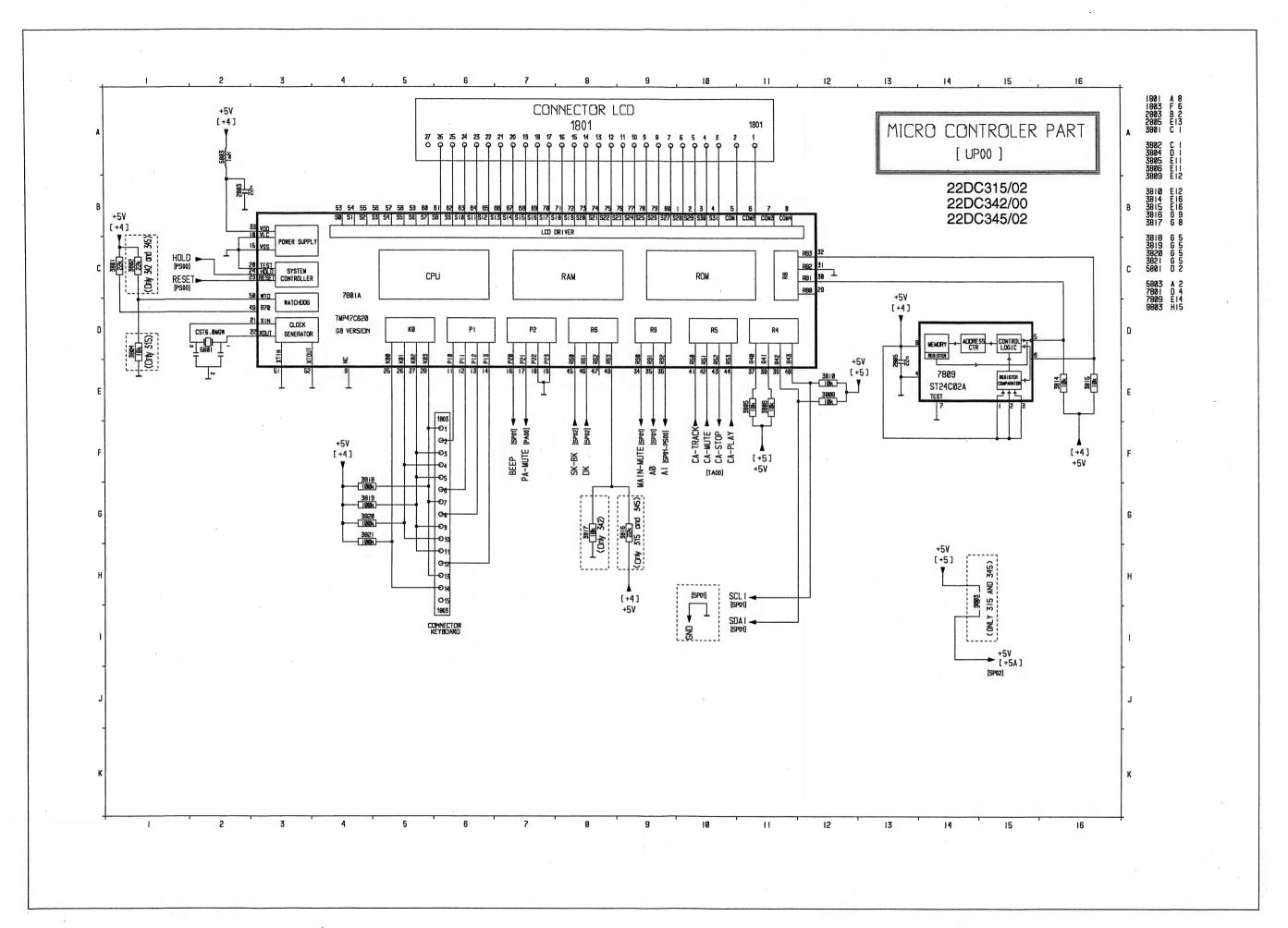
- Page 19-19a: Exploded view

On the drawing: Cable POWER + HP: 419 should read 416

In the mechanical partslist: 416 4822 321 62354 CABLE POWER + L.S.







Miscell	laneous		11		
1300	4822 242 81503	SFP450H	2305	4822 122 33496	100NF 10% X7R 63V
1301	4822 242 73779	SFE10,7MS3-K18-A	2306	4822 122 33496	100NF 10% X7R 63V
1302	4822 242 73779	SFE10,7MS3-K18-A	2307	4822 122 33496	100NF 10% X7R 63V
1303	4822 242 73779	SFE10,7MS3-K18-A	2308	4822 122 33496	100NF 10% X7R 63V
1501	4822 265 41379	10P	2309	5322 122 34098	10NF 10% X7R 63V
4500	4000 404 44479	50MA 14V T1.25	2310	5322 122 34098	10NF 10% X7R 63V ( 315 )
1502	4822 134 41178	50MA 14V T1.25	2310	5322 122 33446	3,3NF 10% X7R63V(342-
1503	4822 134 41178			5522 122 55440	3,3NF 10% A/H03V(342-
1504	4822 134 41179	80MA 14V T1.25	345)		cools and MED only
1505	4822 134 41179	80MA 14V T1.25	2311	4822 126 12772	220NF10% X7R 25V
1512	4822 276 13483	SWITCH	2312	4822 122 33514	68PF 5% NPO 50V
		OLLUTOLI	2313	4822 126 12772	220NF10% X7R 25V
1513	4822 276 13484	SWITCH			0 0 NE 1001 NED 0011
1714	4822 265 41385	CONNECTOR 9P	2314	5322 122 31866	6,8NF 10% X7R 63V
1801	4822 267 60378	CONNECTOR 27P	2315	4822 122 33496	100NF 10% X7R 63V
1803	4822 267 50915	CONNECTOR 15P	2316	4822 126 12772	220NF10% X7R 25V
			2317	5322 122 31866	6,8NF 10% X7R 63V
北			2318	5322 122 32654	22NF 10% X7R 63V
2000	5322 122 31946	27PF 10% 50V	2320	4822 122 33496	100NF 10% X7R 63V
2001	5322 122 32658	22PF 5% 50V		4822 122 33496	100NF 10% X7R 63V
2002	4822 252 60125	DSP-201M-A21F	2321		
2016	5322 122 33244	8,2PF 5%NPO 50V	2322	4822 126 12772	220NF10% X7R 25V
2104	5322 122 34123	1NF 10% X7R 50V	2324	4822 126 12772	220NF10% X7R 25V
2104	JUEE 122 04 120	1111 1070 XIII 00 V	2325	5322 122 32654	22NF 10% X7R 63V
2121	4822 124 41017	10UF 16V	2327	4822 124 23256	47UF 16V
2200	4822 122 33496	100NF10% X7R 63V	2328	5322 124 41431	22UF 20% 35V
2201	5322 122 34098	10NF 10% X7R 63V	•		100NF 10% X7R 63V
2202	4822 122 33496	100NF 10% X7R 63V	2330	4822 122 33496	
2203	5322 122 33063	2,2PF 5% NP0 50V	2332	4822 124 80837	33UF 20% 16V
2200	3022 122 00000	2,217 0,011 0 001	2333	5322 122 34098	10NF 10% X7R 63V
2204	5322 126 10343	1,8PF 5% NP0 63V	2340	5322 122 32448	10PF 5%NPO 50V
2205	5322 122 33446	3,3NF 10% X7R 63V	2349	5322 122 34098	10NF 10% X7R 63V
2206	5322 122 33244	8,2PF 5%NPO 50V	2401	4822 124 40201	1000UF 20% 16V
2207	4822 126 11692	1UF	2401	4822 124 40242	1UF 20% 63V
2208	5322 122 32531	100PF 5% NP0 50V	2402	4822 124 40242	1UF 20% 63V
	E000 400 04040	27PF 10% 50V			
2209	5322 122 31946		2404	4822 122 33496	100NF 10% X7R 63V
2210	4822 122 33496	100NF 10% X7R 63V	2405	4822 122 33496	100NF 10% X7R 63V
2211	4822 122 33216	270PF 5% NP0 50V	2406	4822 122 33496	100NF 10% X7R 63V
2212	5322 122 33446	3,3NF 10% X7R 63V	2407	4822 124 40242	1UF 20% 63V
2213	4822 122 33496	100NF 10% X7R 63V	2408	4822 124 40242	1UF 20% 63V
2214	5322 122 32654	22NF 10% X7R 63V			
2215	4822 122 33496	100NF 10% X7R 63V	2409	4822 124 23256	47UF 16V
1	4822 124 23279	22UF 20% 16V	2411	4822 124 23256	47UF 16V
2217		1UF	2413	4822 122 33496	100NF 10% X7R 63V
2218	4822 126 11692	33UF 20% 16V	2414	4822 122 33496	100NF 10% X7R 63V
2219	4822 124 80837	330F 20% 10V	2502	4822 124 40244	2,2UF 20% 63V
2220	4822 124 23281	33UF 20% 16V	2502	5222 124 41421	22UF 20% 35V
2221	5322 122 32452	47PF 5% NP0 63V	2503	5322 124 41431	
2223	5322 122 34098	10NF 10% X7R 63V	2504	5322 124 41431	22UF 20% 35V
2224	5322 122 34098	10NF 10% X7R 63V	2505	5322 124 41431	22UF 20% 35V
2224	5322 122 34090	6,8PF 5% 50V	2506	4822 124 40248	10UF 20% 63V
2225	JOEL 1EE JEEU	0,011 070 001	2507	4822 124 22412	2200UF 20% 16V
2227	4822 126 10326	180PF 5% NP0 63V	2508	5322 124 41431	22UF 20% 35V
2228	5322 122 32287	4,7PF 5% NP0 50V	1	4822 124 40248	10UF 20% 63V
2229	5322 122 32448	10PF 5% 50V	2509		
2230	4822 126 11692	1UF	2510	5322 124 41431	22UF 20% 35V
2231	5322 122 32448	10PF 5% 50V	2515	5322 122 32531	100PF 5% NP0 50V
2201	COLL TAL OLTTO		2602	4822 124 80453	100UF 20% 10V
2232	5322 122 32448	10PF 5% 50V	2603	4822 124 80453	100UF 20% 10V
2249	4822 124 41584	100UF 20% 10V	2605	4822 124 80836	220UF 20% 10V
2270	5322 122 34123	1NF 10% X7R 50V	2612	4822 122 33342	33NF 10% X7R 63V
2271	5322 122 34123	1NF 10% X7R 50V			
2272	5322 122 32654	22NF 10% X7R 63V	2613 2614	4822 122 32646 4822 122 32646	5,6NF 10% X7R 50V 5,6NF 10% X7R 50V
			2014	7022 122 02040	0,0141 1076 ATTT 50 V
2273	4822 126 11692	1UF	2615	4822 122 33342	33NF 10% X7R 63V
2300	4822 126 11692	1UF	2616	5322 122 34098	10NF 10% X7R 63V
2301	5322 122 32654	22NF 10% X7R 63V	2625	4822 126 11692	1UF
2302	4822 122 33496	100NF 10% X7R 63V	2628	4822 126 11692	1UF
			1		00DC040/cc 00DC045/c

41-		·			
2636	4822 121 43526	47NF 5%	3322	4822 100 11163	100K 30%LIN 0,1W
2637	4822 121 43526	47NF 5%	3323	4822 051 20391	390R00 5% 0,1W
2638	4822 122 33496	100NF 10% X7R 63V	3324	4822 051 20272	2K70 5% 0,1W
2639	5322 126 12506	56PF 5%	3325	4822 051 20101	100R00 5% 0,1W
2640	4822 124 80765	4,7UF 20% 63V	3326	4822 051 20102	1K00 5% 0,1W
2641	4822 121 43101	6,8NF 5%	3327	4822 051 20681	680R00 5% 0,1W
2642	5322 122 32654	22NF 10% X7R 63V	3330	4822 051 20473	47K00 5% 0,1W
2643	5322 121 42465	68NF 5%	3341	4822 051 20109	10R00 5% 0,1W
2644	5322 121 42465	68NF 5%	3342	4822 051 20008	0R00 JUMP. (0805)
2645	4822 122 33496	100NF10%X7R 63V	3343	4822 051 20008	0R00 JUMP. (0805)
2646	5322 121 42465	68NF 5%	3346	4822 051 20473	47K00 5% 0,1W
					•
2647	5322 121 42465	68NF 5%	3347	4822 051 20008	0R00 JUMP. (0805)
2648	4822 124 23282	1UF 20% 50V	3348	4822 051 20681	680R00 5% 0,1W
2649	4822 122 33496	100NF 10% X7R 63V	3349	4822 051 20223	22K00 5% 0,1W
2701	4822 124 80453	100UF 20% 10V	3401	4822 051 20008	0R00 JUMP. (0805)
2702	4822 124 80453	100UF 20% 10V	3402	4822 051 20008	0R00 JUMP. (0805)
_,	4022 124 00400	10001 2070 101	0.02	1022 001 2000	(3333)
2714	5322 122 34123	1NF 10% X7R 50V	3403	4822 051 20222	2K20 5% 0,1W
2715	5322 122 34123	1NF 10% X7R 50V	3406	4822 051 20478	4R70 5% 0,1W
2723	4822 124 80453	100UF 20% 10V	3408	4822 051 20478	4R70 5% 0.1W
2724	4822 124 80453	100UF 20% 10V	3409	4822 051 20478	4R70 5% 0,1W
2725	5322 122 34098	10NF 10% X7R 63V	3410	4822 051 20478	4R70 5% 0,1W
2120	JULY 122 34030	10141 10 % V/U 00 A	3410	TUZE UST 20470	711700/00,144
2726	5322 122 34098	10NF 10% X7R 63V	3415	4822 051 20223	22K00 5% 0,1W
2803	5322 122 32654	22NF 10% X7R 63V	3417	4822 051 20221	220R00 5% 0.1W
2805	5322 122 32654	22NF 10% X7R 63V	3418	4822 051 20473	47K00 5% 0,1W
2005	5322 122 32654	22NF 10% A/R 63V			
			3420	4822 051 20102	1K00 5% 0,1W
			3501	4822 051 20104	100K00 5% 0,1W
3110	4822 051 20229	22R00 5% 0,1W	3502	4822 051 20103	10K00 5% 0,1W
3112	4822 051 20008	0R00 JUMP. (0805)	3502		2K20 5% 0,1W
3113	4822 051 20008	OROO JUMP. (0805)		4822 051 20222	
3200	4822 051 20392	3K90 5% 0,1W	3504	4822 051 20681	680R00 5% 0,1W
3201	4822 051 20222	2K20 5% 0,1W	3505	4822 051 20222	2K20 5% 0,1W
		•	3506	4822 051 20104	100K00 5% 0,1W
3202	4822 051 20103	10K00 5% 0,1W	3507	4822 051 20103	10K00 5% 0,1W
3203	4822 051 20221	220R00 5% 0,1W	3508	4822 051 20103	10K00 5% 0,1W
3204	4822 051 20471	470R00 5% 0,1W	3509	4822 051 20473	47K00 5% 0,1W
3205	4822 051 20471	470R00 5% 0,1W	3510		27K00 5% 0,1W
3206	4822 051 20101	100R00 5% 0,1W	4	4822 051 20273 4822 051 20123	12K00 5% 0,1W
			3511	4822 051 20123	12K00 5% 0,1VV
3208	4822 051 20103	10K00 5% 0,1W	3512	4822 051 20223	22K00 5% 0,1W
3209	4822 051 20103	10K00 5% 0,1W	3512	4822 051 20123	12K00 5% 0,1W
3210	4822 051 20225	2M20 5% 0,1W	1		
3211	4822 051 20479	47R00 5% 0,1W	3514	4822 051 20222	2K20 5% 0,1W
3212	4822 051 20229	22R00 5% 0,1W	3515	4822 051 20222	2K20 5% 0,1W
	•	•	3517	4822 051 20272	2K70 5% 0,1W
3213	4822 051 20008	0R00 JUMP. (0805)	2510	4822 051 20334	330K00 5% 0,1W
3290	4822 051 20224	220K00 5% 0,1W	3518		
3292	4822 051 20229	22R00 5% 0,1W	3519	4822 051 20473	47K00 5% 0,1W
3300	4822 051 20123	12K00 5% 0,1W	3601	4822 051 20104	100K00 5% 0,1W
3301	4822 051 20335	3M30 5% 0,1W	3606	4822 051 20223	22K00 5% 0,1W
			3608	4822 051 20334	330K00 5% 0,1W
3302	4822 051 20333	33K00 5% 0,1W	2000	4000 054 00004	220K00 E9/ 0 434/
3303	4822 100 20166	10K 30%LIN 0,1W	3609	4822 051 20334	330K00 5% 0,1W
3305	4822 051 20333	33K00 5% 0,1W	3614	4822 051 20223	22K00 5% 0,1W
3306	4822 051 20333	33K00 5% 0,1W	3630	4822 051 20223	22K00 5% 0,1W
3307	4822 051 2033	4K30 5% 0,1W	3635	4822 051 20101	100R00 5% 0,1W
5007	4022 001 20402	4100 076 0,1 44	3636	4822 051 20473	47K00 5% 0,1W
3308	4822 051 20224	220K00 5% 0,1W		1000 171 1111	201400 551 5 1141
3309	4822 051 20124	120K00 5% 0,1W	3637	4822 051 20823	82K00 5% 0,1W
3310	4822 051 20124	680K00 5% 0,1W	3638	4822 051 20684	680K00 5% 0,1W
			3639	4822 051 20473	47K00 5% 0,1W
3313 3314	4822 051 20124	120K00 5% 0,1W	3640	4822 051 20473	47K00 5% 0,1W
.7.714	4822 051 20564	560K00 5% 0,1W	3641	4822 051 20104	100K00 5% 0,1W
0014			,		
	4999 NE4 00079	27800 50/ 0 410/			- 4 4
3317	4822 051 20273 4822 051 20391	27K00 5% 0,1W	3642	4822 051 20272	2K70 5% 0,1W
3317 3318	4822 051 20391	390R00 5% 0,1W	3642 3643	4822 051 20272 4822 051 20823	2K70 5% 0,1W 82K00 5% 0,1W
3317		•	1		

			∽~		
646	4822 051 20331	330R00 5% 0,1W	5212	4822 156 21719	LAL02 1U5 10%
8647	4822 100 11677	470R 30%LIN 0.2W	5301	4822 156 21724	IND VAR 7CGL 450KHz
- 40		220K00 5% 0,1W	5302	4822 157 71061	IND VAR 7MM 7P 10MHz7
648	4822 051 20224	· ·			LAL02 10U 10%
649	4822 051 20103	10K00 5% 0,1W	5500	4822 152 20677	
650	4822 051 20103	10K00 5% 0,1W	5503	4822 157 70839	COIL ASSY
_	* *	270K00 5% 0,1W	5601	4822 156 40738	COIL
651	4822 051 20274	270100 578 0,111			CST6,00MGW-TF01
			5801	4822 242 81002	
652	4822 051 20333	33K00 5% 0,1W	5803	4822 157 50975	LAL04 1000UH 10%
		47K00 5% 0,1W			
653	4822 051 20473		N. 1	<b>#</b>	
654	4822 051 20334	330K00 5% 0,1W	<b>+</b>	- <del> ▶ </del> -	
701	4822 051 20103	10K00 5% 0,1W			D 41/00
			6200	5322 130 34337	BAV99
702	4822 051 20103	10K00 5% 0,1W	6201	4822 130 83613	BA779
					BA779
	4822 051 20334	330K00 5% 0,1W	6202	4822 130 83613	
3704			6401	4822 130 30621	1N4148
3705	4822 051 20123	12K00 5% 0,1W	6501	4822 130 30621	1N4148
3706	4822 051 20123	12K00 5% 0,1W	0501	4022 100 00021	1111110
		330K00 5% 0,1W			
3707	4822 051 20334		6502	4822 130 80291	1N4002GP
3708	4822 051 20123	12K00 5% 0,1W		4822 130 30621	1N4148
-			6503		
	1000 051 00100	101/00 59/ 0 11/1	6504	4822 130 34173	BZX79-C5V6
3709	4822 051 20123	12K00 5% 0,1W	6505	4822 130 34173	BZX79-C5V6
3710	4822 051 20103	10K00 5% 0,1W		4822 130 30862	BZX79-C9V1
	4822 051 20103	10K00 5% 0,1W	6506	4022 130 30002	DZ/19-09 V I
3711					
3713	4822 051 20479	47R00 5% 0,1W	6507	4822 130 34173	BZX79-C5V6
3715	4822 051 20479	47R00 5% 0,1W			
,, .0		,	6509	4822 130 30621	1N4148
		000000000000000000000000000000000000000	6512	4822 130 30621	1N4148
3721	4822 051 20331	330R00 5% 0,1W	6601	4822 130 30621	1N4148
3722	4822 051 20103	10K00 5% 0,1W			1N4148
		220K00 5% 0,1W	6702	4822 130 30621	1114 148
3723	4822 051 20224				
3724	4822 051 20272	2K70 5% 0,1W	6703	4822 130 30621	1N4148
3725	4822 051 20103	10K00 5% 0,1W			
3/20	4022 001 20100	101100 011 011	6704	4822 130 80291	1N4002GP
3726	4822 051 20272	2K70 5% 0,1W	X	- Constitution of the Cons	
3727	4822 051 20478	4R70 5% 0,1W	-	<del>2200000000</del>	
-		100K00 5% 0,1W	7200	4822 130 83614	BB135
3728	4822 051 20104				
3729	4822 051 20471	470R00 5% 0,1W	7201	4822 130 63534	PMBFJ309
3730	4822 051 20478	4R70 5% 0,1W	7202	4822 209 33168	TEA6811V/C2/R1
3/50	4022 001 2047 0			4822 209 33167	TEA6821T/V2
			7300		
3801	4822 051 20223	22K00 5% 0,1W	7301	4822 130 60887	BF840
3802	4822 051 20223	22K00 5% 0,1W			
_		•	7400	4000 000 01100	TDA7374V
3804	4822 051 20103	10K00 5% 0,1W	7402	4822 209 31132	
3805	4822 051 20103	10K00 5% 0,1W	7404	4822 130 60511	BC847B
_	4822 051 20103	10K00 5% 0,1W	7501	4822 130 62732	BD241A
3806	4022 051 20103	10100 378 0,111			
			7502	4822 130 62732	BD241A
3809	4822 051 20103	10K00 5% 0,1W	7503	4822 130 44257	BC547
_			,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
3810	4822 051 20103	10K00 5% 0,1W			D.0.4.TD
3814	4822 051 20103	10K00 5% 0,1W	7504	4822 130 60511	BC847B
	4822 051 20103	10K00 5% 0,1W	7505	4822 130 60511	BC847B
3815					BC847B
3816	4822 051 20223	22K00 5% 0,1W	7506	4822 130 60511	
			7507	4822 130 60511	BC847B
0017	4822 051 20103	10K00 5% 0,1W	7602	5322 209 11102	HEF4052BT
3817		· ·	,002	COME EUV IIIUE	
3818	4822 051 20104	100K00 5% 0,1W			
3819	4822 051 20104	100K00 5% 0,1W	7605	4822 209 31979	TEA6330T/V1
_		100K00 5% 0.1W		4822 209 31007	TDA1579T/V4
3820	4822 051 20104		7607		
3821	4822 051 20104	100K00 5% 0,1W	7608	4822 130 60511	BC847B
			7701	4822 130 60511	BC847B
				4822 130 44283	BC636
$\mathcal{M}$	1 <u> </u>  -		7702	4022 130 44203	D0000
	1000 010 01000	AFO1000 A /C1 EMILT			
4300	4822 242 81698	AF9192C-A (61,5MHZ)	7703	4822 209 33162	MC4558IDT
5001	4822 156 21723	LAL 02 A 0U22 5%			TMP47C620F/N744
		LAL02 220UH	7801	4822 209 33191	
5200	4822 157 63315		7809	5322 209 31723	ST24C02AM6
5201	4822 157 71059	IND VAR MC 122 100MHz			
5202	4822 152 20679	LAL02 68UH 10%			
5202	TOLL 102 20010				
5203	4822 157 50975	LAL04 100UH 10%			
-	4822 157 71057	IND VAR 47000UH 6%			
5206					
5207	4822 157 71058	FIL LC VAR 98M KZV-353			•
5208	4822 156 21722	IND VAR 7CGL 10.7MHZ			
		IND VAR 5MM 5KM 72MHZ2			
5209	4822 157 71055	THE AND SIMINI SUM LEMMITE			
			1		
		IND VAD CLARA CIVIA TOLARIZO	I		
5210	4822 157 71055	IND VAR SMIM SKIM 72MHZZ			
5210 5211	4822 157 71055 4822 156 21721	IND VAR 5MM 5KM 72MHZ2 LAL02 2U2 10%	ŀ		

# Car cassette deck CDS-36MH3

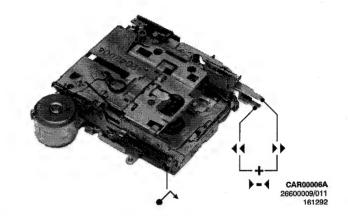
für Philips Car Systems

KiVi

erhalten Sie bei:

KiVi Service GmbH

Windmühlenstr. 41 · 31178 Giesen/Emmerke Tel.: 0 51 21 / 6 00 20 · Fax 0 51 21 / 60 02 54



12 V → |



## GB TECHNICAL DATA

Operating voltage

Tape speed Wow & flutter

Crosstalk suppression

Fast wind time

Number of tracks

Vitesse de bande

Nombre de pistes

Tension de fonctionnement

Assourdissement de diaphonie

Pleurage & scintillement

Temps de bobinagerapide

: 10.5-16VDC (nom. 13.2VDC)

: 4.76cm/sec ± 2% : ≤ 0.35% RMS

: > 35dB

: 10.5-16VDC

: ≤ 0,35% RMS

: > 35dB

: 2x2

(nom. 13.2VDC)

: < 170 sec (C-60)

4,76cm/sec ± 2%

< 170 secs (C-60)

: 2x2

**CARACTERISTIQUES TECHNIQUES** 

#### **TECHNISCHE DATEN**

**TECHNISCHE GEGEVENS** 

Betriebsspannung

Werkspanning

Bandsnelheid

Wow & flutter

Omspoeltijd

Aantal sporen

Overspraak demping

Bandgeschwindigkeit Gleichlaufschwankungen

Uebersprach-Dämpfung

Umspuldauer Spurenzahl

: 10.5-16VDC

: 10.5-16VDC

: ≤ 0,35% RMS

: > 35dB

: 2x2

(nom. 13.2VDC)

: 4,76cm/sec ± 2%

: < 170 sec (C-60)

(nom. 13.2VDC)  $: 4.76 \text{cm/s} \pm 2\%$ : ≤ 0,35% RMS

: > 35dB: < 170 s (C-60)

: 2x2



#### **DATI TECNICI**

Tensione di lavoro

Velocità di trascinamento Wow & flutter Assordamento della diafonia Durata di avvolgimento

Numero di piste

: 10.5-16VDC (nom. 13.2VDC)

: 4,76cm/sec ± 2% : ≤ 0,35% RMS

: > 35dB

< 170 sec (C-60)

: 2x2

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## (GB)

#### MAINTENANCE

The cassette mechanism requires periodic cleaning, as well as periodic lubrication of the principal points.

# Cleaning with alcohol or spirit Playback head Cappana & pressure roller

- Belts & pulleys
To clean head, pressure roller and capstan, it is also possible to use drop-in cassette SBC114-4822 389 20035

#### 2. Lubrication

- See exploded view.



#### (NL) ONDERHOUD

Het cassette mechanisme moet periodiek schoongemaakt en op de belangrijkste punten gesmeerd worden.

#### 1. Schoonmaken met alcohol of spiritus

- Weergeefkop

- Toonas & drukrol

Snaren & poelies

Voor het reinigen van kop, drukrol en toonas kan ook "drop-in"-cassette SBC114-4822 389 20035 worden gebruikt.

#### 2. Smering

- Zie exploded view.



#### (F) MAINTENANCE

Le mécanisme de cassette doit être nettoyé réguilièrement et graissé a ses points cardinaux.

#### 1. Nettoyage à l'alcool ou à l'alcool éthylique

- Tête de reproduction

- Cabestan & galet-presseur

- Courroles & poulles

Pour ce qui est du nettoyage de la tête, du galet-presseur et du cabestan on pourra également utiliser la cassette "drop-in" SBC114-4822 389 20035.

#### 2. Lubrification

- Voir vue éclatée.



#### (D) WARTUNG

Der Cassettenteil soll in regelmässigen Zeitabständen gereinigt und an den wichtigsten Stellen geschmiert

#### 1. Reinigen mit Alkohol oder Spiritus

WidergabekopfTonwelle & Andruckrolle

Pesen & Seilrollen

Zum Reinigen von Kopf, Andruckrolle und Tonwelle kann auch die "drop-in"-Cassette SBC114-4822 389 20035 benutzt werden.

#### 2. Schmierung

Siehe Explosionsansicht.



#### MANUTENZIONE

La meccanica del registratore richiede pulizie come pure periodiche lubrificazioni dei punti principali.

#### 1. Pulizia con alcool o spirito

Testina di riproduzione

- Capstan & rullo pressore

- Cinghie & puleggie Per la pulizia della testina, del rullo pressore e del capstan si può usare la cassetta "drop-in" SBC114-4822 389 20035.

#### 2. Lubrificazione

Vedere esploso.

## (GB) ADJUSTMENTS AND CHECKS

Equipment required:

- Universal test cassette SBC419 4822 397 30069
   Universal test cassette SBC420 4822 397 30071
- 4822 395 30054
- Friction test cassette 811/CTM
- Spring scale 50-500gWow & flutter meter

4822 395 80028

- AC millivoltmeters

#### 1. Azimuth (Fig. 1)

Azimuth alignment should be carried out on a complete car radio; proceed as follows:

- Connect the millivoltmeters to the loudspeaker outputs.
- Insert test cassette SBC419 (or SBC420), select
- NOR (normal play) and play the 10kHz signal.

   Adjust Azimuth screw "A" for equal and maximum output voltage reading for both RH and LH channel.
- Switch to REV (reverse play) and play the 10kHz signal.
- Repeat the adjustment with screw "B"

#### 2. Friction clutch 55

- Insert friction test cassette 811/CTM (NOR and REV).
- Play take-up torque should be 35 75g/cm.
- Fast wind torque should be 40 150g/cm.
- If the torque is not correct, replace clutch 55.

#### 3. Wow & flutter/tape speed (Fig. 1)

This check is carried out on an complete car radio; proceed as follows:

- Connect the wow & flutter meter to the LS outputs
- Insert test cassette SBC419 (or SBC420) and play the 3150Hz signal
- The wow & flutter value should be 0.35%
- Tape speed should be 4.76cm/sec. 2%
- The tape speed can be adjusted with screw "C" In case of an excessive wow & flutter value, check following parts for correct functioning:
  - motor 56
- pressuer rollers 62, 84
- belts 63, 93
- friction clutches 55
- flywheels 92, 94
- pulley 71

#### (NL) INSTELLINGEN EN CONTROLES

4822 397 30069 4822 397 30071 4822 395 30054

4822 395 80028

## (F) REGLAGES ET CONTROLES

Benodigde meetinstrumenten:

- Universele testcassette SBC419

- Universele testcassette SBC420

- Frictie testcassette 811/CTM

Veerdrukmeter 50-500g

Wow & flutter meter
 AC millivoltmeters

1. Azimuth (fig. 1)
De Azimuth instelling dient te geschieden bij de

komplete autoradio en wel als volgt:
- Sluit de millivoltmeters aan op de LS-uitgangen.
- Breng testcassette SBC419 (of SBC420) in, kies

NOR (normaal afspelen) en geef het 10kHz-signaal

- Stel met schroef "A" de uitgangsspanning zo in, dat deze voor zowel linker- als rechterkanaal gelijk en maximaal is.

 Schakel over naar REV (omgekeerd afspelen) en geef het 10kHz-signaal weer.
- Herhaal de instelling met schroef "B".

2. Frictie 55

- Breng testcassette 811/CTM in (NOR en REV).

De afspeelfrictie moet 35 - 75g/cm zijn.
 De snelspoelfrictie moet 40 - 150g/cm zijn.

 Indien de waarde niet juist is moet frictie 55 worden vervangen.

3. Wow & flutter/bandsnelheid (fig. 1)

Kontrole moet worden gedaan bij een komplete autoradio en wel als volgt:

- Sluit wow & flutter meter aan op de LS-uitgangen.
- Breng testcassette SBC419 (of SBC420) in en geef het 3150Hz-signaal weer.
- De jengel moet 0,35% zijn.

- De bandsnelheid moet 4,76cm/sec 2% zijn.

 De snelheid is instelbaar met schroef "C Bij een buitensporige waarde moeten de volgende onderdelen op hun juiste werking worden

gekontroleerd: Motor 56

- Drukrollen 62, 84

- Snaren 63, 93

- Fricties 55

Vliegwielen 92, 94

- Poelie 71

Instruments requis

- Cassette d'essai universelle SBC419 4822 397 30069 - Cassette d'essai universelle SBC420 4822 397 30074 - Cassette d'essai de friction 811/CTM 4822 395 30054

- Dynamomètre 50-500g 4822 395 80028

- Instrument du pleurage & scintillement

Millivoltmètre en alternatif

1. L'azimuth (fig. 1) Le réglage de l'azimuth devra être effectué lorsque l'auto-radio est au complet; procéder comme suit:

- Brancher les millivoltmètres sur les sorties h-p.

 Insérer la cassette d'essai SBC419 (ou SBC420), sélectionner NOR (défilement normal) et reproduire le signal de 10kHz.

- Régler la tension de sortie à l'aide de la vis "A" de façon qu'elle soit égale et au max. pour le canal de gauche tout comme celui de droite.
- Sélection de REV (défilement inversé) et reproduire

le signal de 10kHz.

- Répéter le réglage à l'aide de la vis "B".

2. Friction 55

 Introduire la cassette d'essai 811/CTM (NOR et REV).

- La friction de défilement doit être 35 - 75g/cm.

- La friction au bobinage rapide doit être 40 - 150g/cm.

- Si la valeur est inexacte, remplacer la friction 55.

3. Pleurage et scintillement/vitesse de bande

(fig. 1) Le contrôle devra être effectué lorsque l'auto-radio est au complet; proceder comme suit:

Brancher l'instrument du pleurage sur les sorties h-p.

- Introduire la cassette d'essai SBC419 (ou SBC420) et reproduire le signal de 3150Hz.

- La valeur de pleurage doit être 0,35%.

La vitesse de bande doit être 4,76cm/sec 2%.

La vitesse est réglable avec vis "C

Si le taux de pleurage est dépassé, il faut vérifier le fonctionnement des composants suivants:

- moteur 56

- galets presseur 62, 84

- courroies 63, 93 - couple de friction 55

- volants 92, 94

- poulie 71

## (D) EINSTELLUNGEN UND **KONTROLLEN**

Benötigte Messgeräte:

- Universal-Testcassette SBC419 4822 397 30069 - Universal-Testcassette SBC420 4822 397 30071 Friktionstestcassette 811/CTM 4822 395 30054

4822 395 80028

- Federwaage 50-500p Gleichlaufanalysator

- Wechselspannungs-Millivoltmeter

1. Azimuth (Bild 1)

Die Azimutheinstellung soll mit dem kompletten Autoradio stattfinden und zwar wie folgt:

 Millivoltmeter an die Lautsprecherausgänge schalten. Testcassette SBC419 (oder SBC420) einlegen, NOR (normal spielen) wählen und das 10kHz-Signal wiedergeben.

- Mit Schraube "A" die Ausgangsspannung so einstellen

dass sie für sowohl den linken als auch den rechten Kanal gleich ist und den Höchstwert aufweist.

Auf REV (umgekehrt spielen) schalten und das 10kHz

Signal wiedergeben.

- Die Einstellung mit Schraube "B" wiederholen.

2. Reibkupplung 55

- Friktionscassette 811/CTM einlegen (NOR und REV).
- Die VL-Friktion soll 35 - 75p/cm sein.
- Die SVL-Friktion soll 40 - 150p/cm sein.

- Falls der Wert nicht richtig ist, muss Friktion 55 ersetzt

werden.

# 3. Gleichlaufschwankungen/Bandgeschwindigkeit

Die Kontrolle soll mit dem kompletten Autoradio wie folgt vorgenommen werden:

- Gleichlaufanalysator an die LS-Ausgänge schalten. Testcassette SBC419 (oder SBC420) einlegen und

3150Hz-Signal wiedergeben.

- Der Jaulwert soll 0,35% sein.

- Die Bandgeschwindigkeit soll 4,76cm/s 2% sein.

Die Geschwindigkeit ist einstellbar mit Schraube "C". Bei einem übermässigen Jaulwert folgende Teile auf ihr richtiges Funktionieren kontrollieren:

Motor 56

Andruckrollen 62, 84

Pesen 63, 93

Friktion 55

Schwungräder 92, 94

- Seilrad 71

## **REGOLAZIONI E CONTROLLI**

Strumenti richiesti:

Cassetta test universale SBC419 4822 397 30069 Cassetta test universale SBC420 4822 397 30071 4822 395 30054 Cassetta test per la frizione 811/CTM 4822 395 80028

Dinamometro 50-500gr

Strumento wow & flutter - Millivoltmetro AC

1. Azimuth (fig. 1)
La regolazione dell'azimuth deve essere eseguito quando l'autoradio è completa e ciò nel seguento

 Collegare un mV-metro all'uscita per altoparlante.
 Inserire cassetta test SBC419 (o SBC420), selezionate NOR ("normal play") e riprodurre il segnale a 10kHz.

- Ruotare la vite "A" finchè la tensione letta per entrambi i canali sia la piu elevata.

Selezionate REV ("reverse play") e riprodurre il segnale a 10kHz.

 Selezionare la funzione Reverse e ripetere la taratura dell'azimuth utilizzando la vite "B".

#### 2. Forza della frizione 55

- Inserire la cassetta 811/CTM (NOR e REV).

 La forza in Play deve essere 35 - 75gr/cm, in avvolgimento veloce 40 - 150gr/cm ra 40 - 150gr/cm.

- Se la forza non è corretta sostituire la frizione 55.

#### 3. Wow e flutter/velocità del nastro (fig. 1) Questo controllo deve essere eseguito guando l'autoradio

è completa e ciò in maniera seguente:
- Collegare il misatore di Wow e flutter all'uscita per altoparlante.

- Inserire la cassetta test SBC419 (o SBC420) e riprodurre il segnale a 3150Hz.

- Il valore di Wow e flutter deve essere 0,35%.

- La velocità deve essere 4,76cm/sec 2%. La velocità può essere regolato con la vita "C" Nel caso ci sia un valore eccessivo di Wow e flutter. bisogna controllare le seguenti parti se funzionano in

modo corretto: - Motore 56

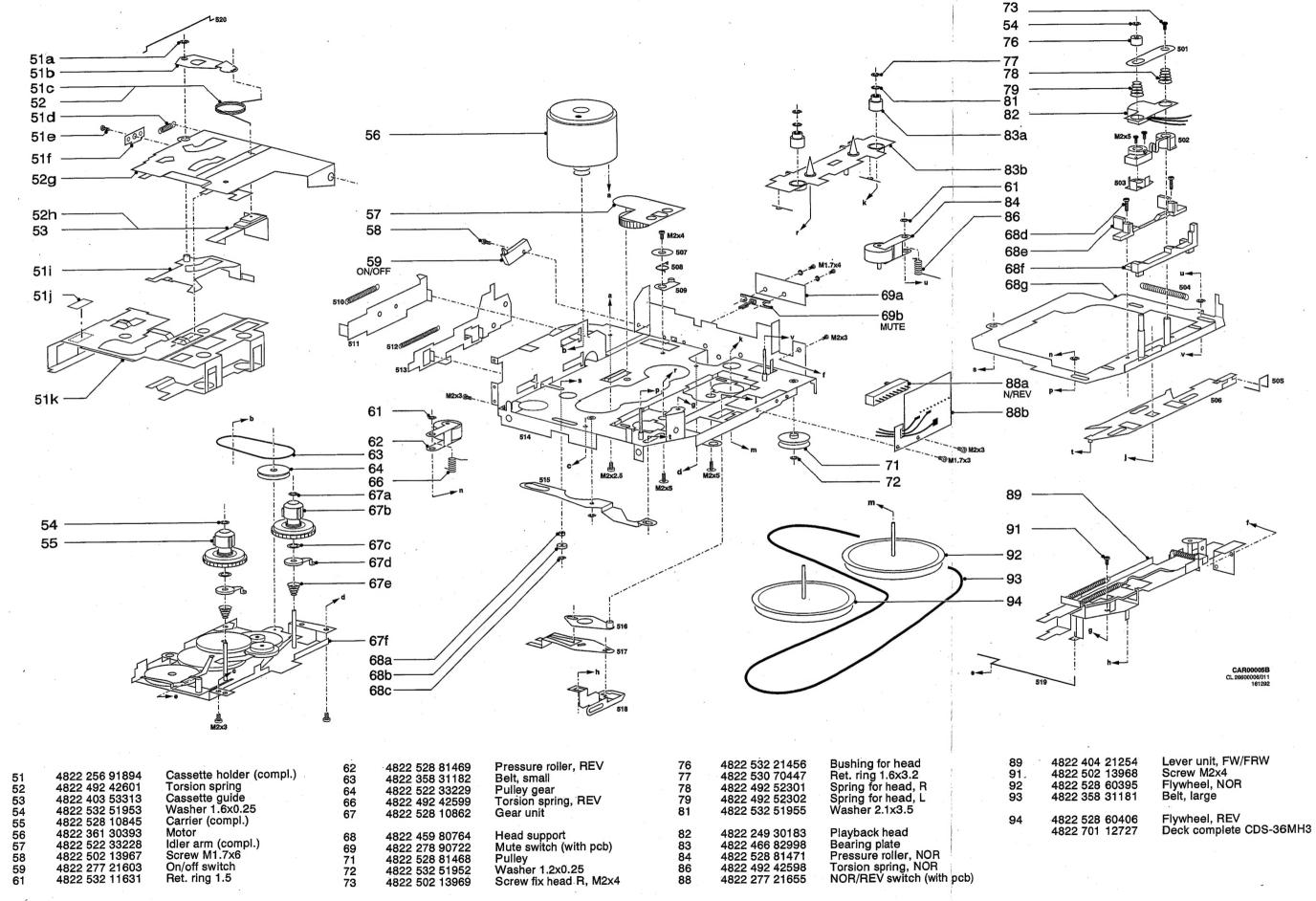
Rullo pressore 62, 84

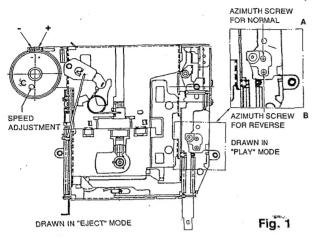
Cinghia di trascinamento 63, 93

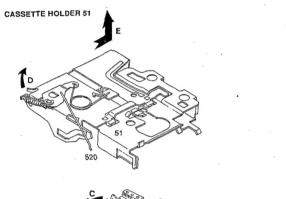
- Frizione 55

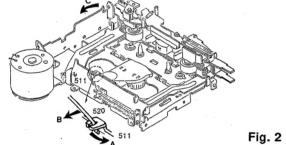
Volano 92, 94

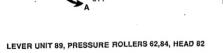
- Puleggia 71

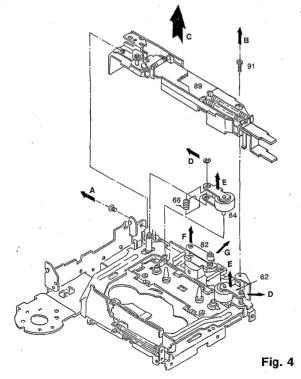


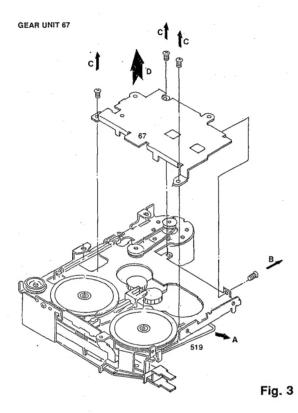












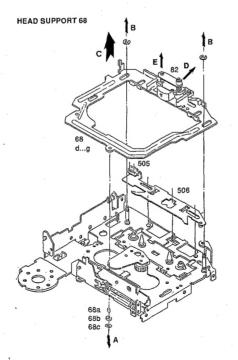


Fig. 5

st minute change: lubricat	ion instructions will	be given in a So	ervice Informa	tion.	
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